

SEQUENCE LISTING

<110> Sun, Yongming
 Recipon, Herve
 Salceda, Susana
 Liu, Chenghua
 Turner, Leah

<120> Compositions and Methods Relating to Breast Specific
 Genes and Proteins

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<150> 60/243,805

<151> 2000-10-27

<160> 266

<170> PatentIn Ver. 2.1

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 <212> DNA
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 <222> (345)
 <223> a, c, g or t

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<213> Homo sapiens

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agagaccaca	catatgctgc	aagtccagcc	ctgctcagag	ccgttctttg	ccaaataatc	540
accttggttat	taaagagctg	attgttctac	tagactcttc	tattcttatg	gttcaccatg	600
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<210> 20
 <211> 532
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (270)..(313)
 <223> a, c, g or t

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tttgaagtac	ctctgaattt	acacataggc	attccactca	tgtaagcact	cattgattttt	180
aagatttttc	attcatcaaa	agggaaaatg	tgggctgcc	tatgtataat	ttttgtcatc	240
caaaaaagag	atataaagtt	aaaaattagn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnctataca	tctgtttaga	tgggaatggt	gacgtggaag	tgtatcactt	360
cctgttttac	gtccctgtgt	aaaacaatca	catttcccta	ttgatgactg	tcttccaaca	420
gaaacgtaat	catcttcaag	gtagaaaaat	gttttttaaa	taacttcaac	cagcgtaaac	480
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<210> 21
 <211> 968
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (269)..(312)
 <223> a, c, g or t

<400> 21
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 nnnnnnnnnn nnctatacat ctgttttagat gggaatgttg acgtggaagt gtatcacttc 360
 ctgttttacg tccctgtgta aaacaatcac atttccttat tgatgactgt cttccaacag 420
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 aaactggtta attcaccaaa atgttaacca aaattaacca aatcaaattt gggtttatttt 540
 ccaggtctct tttttctttt cttttttcat ttttgagag atgggatctt gctatgttgc 600
 ccaagctaaa atgcaacttg ttattcacag gcatgataat agtgccctat agcctcgaac 660
 tcctggggccc acatgatcct cctgccttag cctcctgagt attcccaggt ttttcttaata 720
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 gttccccg 968

<210> 22
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 22
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 actttgtaac acaggaattc tgcactcatt actgttttgg cattctcaag cccagttgg 120
 ggcacacaag tgtttaataa gtatttaact gatttgcata agaataaatt cattgatttc 180
 tttgattttt tggtgctggg tttcagtga aaaaatgtta tcagccgcac aacggtgggc 240
 tcacgcctgt aatcccag 258

<210> 23
 <211> 441
 <212> DNA
 <213> Homo sapiens

<400> 23

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acagattaaa actgtaacct actattttcaa aataagttaa atttaagaaa atgataagcg 60
acatgaaaga acagtgtaaa tcagaattag aaaaatttaa gatgacataa cagaactcaa 120
gaatagaatt ataaatgaaa gaaaaatttt ctgaaataaa aaccacagaa gaacaccaa 180
gtgagtaaac aaaaaagaca atgccttagg gcagcagtct ccaaagtgtg ttccagtcct 240
gtagaccctc ttagggaccc tgttcacagt taatactaag atgggttaatt gcttttgcca 300
actttgggaa aagcacatct tgtttttttt tttaaactga cttttgcatt gataatacaa 360
aagaaatggc aggtaaaact accttagcac taatcaagaa agtgacacca tatcatattt 420
agagtcttca ctgccatggc a                                     441
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<210> 24

<211> 604

<212> DNA

<213> Homo sapiens

<400> 24

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gaatagaatt ataaatgaaa gaaaaatttt ctgaaataaa aaccacagaa gaacaccaa 180
gtgagtaaac aaaaaagaca atgccttagg gcagcagtct ccaaagtgtg ttccagtcct 240
gtagaccctc ttagggaccc tgttcacagt taatactaag atgggttaatt gcttttgcca 300
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aagaaatggc aggtaaaact accttagcac taatcaagaa agtgacacca tatcatattt 420
agagtcttca ctgccatggv aaaagaaaga aagaaagtaa gagagagaga aagagaaagr 480
gagaaacaga gaaagagaga aaggaaaaga aagwtaagag aaaagaaaga aaggaaaaaa 540
aagaaagaaa aaaaaggaaa ggaaagggga aagaaaaaga aaagaaaaga aaggaaagat 600
tgaa                                     604
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<210> 25

<211> 406

<212> DNA

<213> Homo sapiens

<400> 25

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tctactgtac acttgtgagc aaatgagagt gaaaaaggca tataacgtct tagcattatg 180
aaaatagttt taactttgca gatcccttga gaggggtcttg gggataccca gcagtccttg 240
aaccacagtt ttagaaagta ctctgggtta gatatgattt tctttttctt tctattgtaa 300
aagttcaagt aaagtttatt tccctctatc ttattacaca agcatattaa caaaggaagc 360
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<210> 26

<211> 246

<212> DNA
<213> Homo sapiens

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<222> (65)
<223> a, c, g or t

<220>
<221> unsure
<222> (70)
<223> a, c, g or t

<220>
<221> unsure
<222> (83)
<223> a, c, g or t

<220>
<221> unsure
<222> (88)..(89)
<223> a, c, g or t

<220>
<221> unsure
<222> (91)
<223> a, c, g or t

<220>
<221> unsure
<222> (93)
<223> a, c, g or t

<400> 26
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acttaccgcc tttcctggaa aatgtcccat gtgtacttgg gaaggatgtg tattctgttg 180
ttgttaggta cagtgttctg tgtgccctgg taaatcaaat tggcttatcg tgcccccttca 240
agtgcct 246

<210> 27
<211> 190
<212> DNA
<213> Homo sapiens

<400> 27
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atggatcttg aaatattgac atttattaag gaaaactctt ccttagtaga aacatcattg 120
gaaagaccaa aataagtgtc tccatgaagc taggtaacgt cttattatta atattttttt 180
aaatcaggta 190

<210> 28
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (229)
<223> a, c, g or t

<220>
<221> unsure
<222> (356)
<223> a, c, g or t

<220>
<221> unsure
<222> (443)
<223> a, c, g or t

<220>
<221> unsure
<222> (474)
<223> a, c, g or t

<400> 28
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tgggtttgtt atgtgtgctg gttagggccc tgcattgccag tcaagctcct gtcctacagc 180
ctgcctgtgg gaggatctca gtgtgaggtc tggagccctg gaacgaggnc cacctgggct 240
cactctcttc atactggagc agggaaaggg cagagagagc tgcagaccgg aaagtggatg 300
gtctgggggtc ggagtcgggc cctgtgcacc agctgtgagt cattaagcca gactcnaggc 360
taaggcttcc tcatctgtta aacagcgaca cgcaggggac tgctcatctt tcaggtgcga 420
ggttggggga gtggtgggtg ggnacaggca tggttaactg catgtggaag gggntgttgt 480
tcttgggtat ctggaagtca cacgtgggta taaactggga gcatgtgtgt gtttggttaat 540
agtcttgctc cccaaaatat tctaatatag ctcaacaagc cgcacgtaag ccttcaagat 600
agaaatctgt gagtgaagaa aatgaggcaa agggaaaata agaaaagaca gct 653

<210> 29
<211> 822
<212> DNA
<213> Homo sapiens

<220>
 <221> unsure
 <222> (806)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (818)..(819)
 <223> a, c, g or t

<400> 29
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 aatacagggtc tgattatgta caattccaga aatatacatta attaatacacc actcattttt 180
 aagatgtgtg aagactgtaa tattggctag tgaattttat cagtattaat atgcatagaa 240
 cccacattcc tctttttgat ttgatgtatt atagcatgta tgtattgcta tttttctctt 300
 tttttgaagt ggtgaggaat catgcacagt caatatgctg gggtccctta gaaatgactt 360
 tagctcctgt ctgaaggcag gaaaaacttc tttttaagga actttcatca ttgcctttta 420
 ctttttctat gatgggtttc atgagcactg aaatacactg gagaggcaat gcaaagaaat 480
 ctatctgaaa cagcttcttg gcaccctgga gttacagcta tgaagggtc caacgtaagg 540
 gaagcttaat gcttccgaat attgacattg actccttggg tgaatttttg tccaaatata 600
 aaattcttca tgttcaacaa ctaaatgtaa taaatgaatt tcatatatac ttacatgata 660
 tctttgagat taaattaatt atccttttgt aggaactgac agctttgggt agattatttt 720
 ttcagttgaa atgtgttgct aacaatatgc ttacacttga acgctgtttt tcatattgat 780
 aggaagacac aaatttctca gggaancagc tttgtganng aa 822

<210> 30
 <211> 682
 <212> DNA
 <213> Homo sapiens

<400> 30
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 tacactttct tccttacttt cctcttttcc cattgtcctt ccttaaagac tagcagcagc 180
 agaatttgga aaataaataa tgggcatggt ttgctaataa tcatgacaaa ctataataat 240
 ctgttttgaa ttttacttgc ctgtttctaa attttggagt ctagagaact gctatcaaag 300
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 gagaacttga gccccacctt tccccagtg tattccttgc ataggcaacc tctgctgctt 420
 aaatgttttg gagactttgg gatgtctgat ttcaactgta ccgtgaaaca ggtagtgggt 480
 tgacttagta agcatctgaa ggactgtttt gttctactct tgcagagtag agtagttttc 540
 aaaaggaaaag gaaaggaatt gttgagtggg acctatgaag tatagcagga tggatagaat 600
 atgaggcaga tgggtcctag tttgctaaag agcttgggcc gtctgataag ttgtctttct 660
 tgccaaacaa gggagtcacg tg 682

<210> 31
 <211> 1498
 <212> DNA
 <213> Homo sapiens

<400> 31
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 tgacattatc actggacaca ggagtgggct cttgatagaa aaaatgaatt cagctcaact 120
 tcctctgtct cacgtgctct catcctctca ctttttacta tgggatgacc ctcaacagat 180
 gccagtgtca tgttcttgga ctttccagtc ttcagaatca tgagccaaat aaatctcttt 240
 tcttttactt aattactttt tttttttttt tttttagtag atggggtctt attatgttgc 300
 ccaggtttgt ctcgaattca tgggctcaag cgatcctcct gcctcggcct cccaaaatgc 360
 tgggatttga agcataagcc accacgcccga gcgataaatc tcttttcttt aaaattatcc 420
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 ccaagctctt tagcaacta ggacccatct gcctcatatt ctatccatcc tgctatacgt 780
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 acattcggag agttttttaa atatgggagg tggccaggca cggtgggtca tgcctgtaat 1440
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<210> 32
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 32
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 aggtatgcag gcgctgtggg attacttggt tgtttatgta aaaattattt tgcactcact 180
 tctgaaatga gtgttagtag aatcatcttt agaggagggt ccaaggcatt gaactgagat 240
 acctgcactg tttgctgtaa atttaagctt aaaattgaaa ccaggttatc agcattttcat 300
 gccaggagag agtgggcatg aatgatttca ggaaatgaag agctagattt cagccttgaa 360
 tttgcttcca cccttctgtg gcaaattagt gtggggtcac tgagcacttt atctgcccgt 420
 ggtaatttat tttaccagac aggggtgt 447

<210> 33
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 33
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 gtactttatc acccatgggg tgttaaaaat acagttttaa aatacagtct ttcacatgtc 120
 ctacaaagtg ctagaaaaaa aatttttaaaa attgacgggg cgcaggggct gatgcc 176

<210> 34
 <211> 307
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (28)
 <223> a, c, g or t

<400> 34
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 ttgatctttt cttcttgggg gctgtcttag ggtcagggag attgcagaag caccagaact 180
 aggagcagcc ctgagacatg gggagttgga gctgaaggag gaatggcagg atgaagaatt 240
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 aggggat 307

<210> 35
 <211> 1104
 <212> DNA
 <213> Homo sapiens

<400> 35
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 gaggcaggaa aaaagacaga tgttgggtaa gtaagatctt ggctcacttg attggtaaca 180
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gcagaagcac	cagaactagg	agcagccctg	agacatgggg	agttggagct	gaaggaggaa	1020
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<210> 36
 <211> 1020
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (444) .. (485)
 <223> a, c, g or t

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tggctggaac	tttgcttata aaataatata ttacatttgg ttactaaaac actagggtttc 240
ctttaattga	agaatcccag tttgagtgtt tctcaagtac agtgagtttc aaaggatagt 300
ggtagctagt	agtattagtg aaaatagtca taactagcat ttattgaata ttatttgcca 360
aaacgtgcct	aacaatttta catgtattat ctcatttaac cagcacaagc aaccctatga 420
gaggtgaatt	attgttatcc aaannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnttttt	agtattacac agaagatctg ggactcaaaa ttaacagggt attatcaaga 540
acatttatga	agggaccaca ttatatatga cagcgttgga tgtccagtga attttgcatg 600
atacggagtt	gaattagtcc ctggcttcaa ggactttcct ttctctttta tcccttctat 660
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ctagcagaaa	acataatata taaagagagt tgtgtgctag acaaatggac taagaaacca 840
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atggtcataa	gaaaaattat caagtgaaaa gttaaccact gccaaactca tatgattgaa 960
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<210> 37
 <211> 1347
 <212> DNA
 <213> Homo sapiens

<400> 37	
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ggggcagtta	acagatgaaa	ataacctctc	caaagtgcgc	tgaagaggct	caacctaaag	180
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ctttaattga	agaatcccag	tttgagtgtt	tctcaagtac	agtgagtttc	aaaggatagt	300
ggtagctagt	agtatttagt	aaaatagtca	taactagcat	ttattgaata	ttatttgcca	360
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tgaccttttt	agtattacac	ggaagatctg	ggactcaaaa	ttaacaggct	attatcaaga	540
acatttatga	agggaccaca	ttatatatga	cagcgttgga	tgtccagtga	attttgcatg	600
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gacttttaggt	acacgattcc	ccactggcag	ctgctttaat	ggtgaaggat	ttcttgagta	780
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tgatttcttg	gggttttgtt	cttgctattt	tcaagctaaa	atgcaccctt	gggattgcag	900
atggtcataa	gaaaaattat	caagtgaaaa	gttaaccact	gccaaaactca	tatgattgaa	960
aattggccat	tgttatgttt	agaatatttt	ttgtgcattt	gcaattaaga	ataaaaaagtc	1020
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cacagattcc	caggggtttg	aagacagtat	tccaatttg	gaatgtagtc	ctgactatcc	1140
caaggatctt	ggaatctcag	ggtagaagg	gatcttaaaa	atcaccctt	ttaacctccc	1200
ctcaatgcag	gaattctctc	taaagcctcc	tcaacaggcg	gccaaccccc	atatccgcct	1260
gaatgcttcc	agagaaggcg	agtcgaatcc	tttgttggac	agccctgatt	gtttttcctg	1320
atgttggtga	tgggccttga	gaaaaag				1347

<210> 38

<211> 141

<212> DNA

<213> Homo sapiens

<400> 38

caggatgcgg	ccatacgaaa	gaactccatc	aaactccctt	ccccaatata	aaccctcat	60
tctgtaagct	tggggctact	tcctctctga	ctgttaaggg	agcagccagc	aggttaataa	120
aaagttacct	gcctaaaaaa	a				141

<210> 39

<211> 839

<212> DNA

<213> Homo sapiens

<400> 39

aatgagcctt	tgttctagct	actctgttct	atataggcta	cacttgcaaa	tcaaattcct	60
ctgtcaatga	ccttcaatgc	tatctctaag	aaattcctcc	aggagtctgt	ctgtcccatg	120
ctagaagcct	cagaactgtg	cctctgtgtt	tttatcctgg	acacaatctg	cctagaagggt	180
cttccccaaa	ctcgtgtcag	ctgaattcat	acctgggtatc	tctctcccc	agcttagtgt	240
aaacttagtg	cagggacttt	atcttgcttc	accaatgtct	tcgccacca	agaataatgc	300
ttggcacaca	agagggggcc	aatacatttt	tatgaaatga	atgtagactt	aggatatgtg	360
tctgtttttt	gatatgtttc	ctgagtggtc	agtgttcttc	cccaggattc	cctgactcca	420
aaccagccct	ctgttaggga	caaactgccc	aagaaacctt	cttggtgctg	tccacccatc	480

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ccccaaagcct ctttacattt ctaagccctc acctaggcac cacggtgaag ccagcagact 540
ttgcttatca gaccttgctg caatagccac accccatta caaaccoccc caccctgcac 600
agggggaggt catgggaaac ataaacaaac tttacctaca cctcctgta ataaacgtca 660
caaggtaata ttagcaaaaa ttaaccagca aacaacocca ggatgcggcc atacgaaaga 720
actccatcaa actccctcc ccaatataaa cccctcattc tgtaagcttg gggctacttc 780
ctctctgact gttaaggag cagccagcag gtttaataaaa agttacctgc ctaaaaaaa 839

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<210> 40
<211> 473
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (463)
<223> a, c, g or t

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<220>
<221> unsure
<222> (465)
<223> a, c, g or t

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<400> 40
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gtcaaaaaatg ttgcaaaatc atagcagtaa gaacaatagc aaccatcatt catgggaccc 180
ttaatctgtg tcagcctctt gggcattttt tcattcagtt ttacgacaac cctgtcagac 240
ggttaatatg atttgaatct ttgcagtcaa ggaaactgaa tcctaggcag ggtaagtaac 300
ttccccaagg ccaaatagta ttacagtagt taacctttta ttttgtgtt tattttaaagt 360
catcatcaaa acatattcta atgagcattt attgttgtaa agctctttta gccaggtaag 420
ttcagggcta tccttttaaa gcagtacttt gatgtttttt ttntnttttt ttt 473

```

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<210> 41
<211> 976
<212> DNA
<213> Homo sapiens

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<400> 41
aatagttcat atagggattt ggccctcgag cagtaattcg gcacgagaga tctttttttt 60
tttttttttt tgagacacgg tcttgctttg tcgcccgggc tggagagcgg tggtagcatc 120
atggctcact atagcctctg cctcccagac tcaacaatc ctcccacctc agcctgctga 180
ggaacttggg actacaggta taagtgccac tgtgccagc taatttttgt atttttttgt 240
agagacaggg ttccaccatg ttgccaggc tgggtctcaa ttctgggct caaagcaatc 300
ctcctgcctc aacctccaa agtcctggga ttacaggcat gagccaccac acctgctctt 360
catttttact gttttgaatt caacatttgc tccagtatga atcaaatctt gaccaatatc 420
accctacca atatctaca ggcagatgcc tcacctocca gagtaactta gaaaaccagt 480

```

```

gccatgagag acccgctcaa tttaaaaaaaa aaataaacia aacatcaaag tactgcttta 540
aaaggatagc cctgaactta cctggctaaa agagctttac aacaataaat gctcattaga 600
atatgttttg atgatgactt taaataaaac acaaaataaa aggttaacta ctgtaatact 660
atttggcctt ggggaagtta cttaccctgc ctaggattca gtttccttga ctgcaaagat 720
tcaaatcata ttaaccgtct gacaggggtg tcgtaaaact gaatgaaaaa atgcccaaga 780
ggctgacaca gattaagggt cccatgaatg atggttgcta ttgtttctac tgctatgatt 840
ttgcaacatt tttgacttat ccttcattaa atatactttg ttcaatggca atcccaagag 900
acgggattaa aactaaggag aaactaagtt tttctacctc aaacttcagc tcttcaaagg 960
catatgtggg acctcg
976

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<210> 42
<211> 194
<212> DNA
<213> Homo sapiens

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<400> 42
gtgaaatcaa atcaccattc taaaaaatta ttacttatat tgataaagcc tggattctct 60
caacttgttt tgttttgctt tgcttttttt ctttaaccaa tcaatctctt attgatagat 120
tttgtgtaaa aagatatata ctagtcttct cagaaagatt aacaataaaa attgtgttta 180
tttcaaaaac ataa
194

```

```

<210> 43
<211> 378
<212> DNA
<213> Homo sapiens

```

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<400> 43
catctaaact tgaataataa agttttacca ccagttacac ataacggcgt tggatatgggt 60
tatatggatt cactttcatc cttctagcaa taggaaatac agatcattgt aatatatata 120
tatatatata tatatatata tatatatata tacaggctct gctgaattga 180
aatggtgaaa tcaaatcacc attctaaaaa attattactt atattgataa agcctggatt 240
ctctcaactt gttttgtttt gctttgcttt ttttctttaa ccaatcaatc tcttattgat 300
agattttgtg taaaaagata tatactagtt tcttcagaaa gattaacaat aaaaattgtg 360
tttatttcaa aaacataa
378

```

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<210> 44
<211> 662
<212> DNA
<213> Homo sapiens

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<400> 44
catatctgca ccacgtctag aacaacttcc cttcccaaga gaattaaaat acatttttttg 60
tttttccctg caatactctg tagtactact gttctggaat ttcagttctc atgcaacata 120
ccggccccctt tgcacagtga aaacgtaagt atgataagtc ccagtatgtg gaagaactag 180
aagaaccag gagttgtgat cctaaacaac ttttaactgg gccttggtat gatttccacg 240

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tgtgatactt	tactcattct	gagattaaca	gtcgactgg	tgaaactgac	agccgctata	300
tgggcatact	aatgtaactt	attacaagac	aggaagtgg	aagagttgtt	tgatctagtt	360
gaaaccatgg	gggaatttgg	gaaagcagag	taaatttgct	aatttggaag	tctgagactt	420
cagagcttgt	tattcttgaa	gcagttgtta	aaagtcagtg	gacatcctga	ttctcaggtc	480
tccgatgtgg	atgtgcatcc	tctccggcag	catgattttt	ccaggaccag	aatgtgacag	540
gagcggtccc	gcaatagaat	tgcaggctca	caggccggct	gcagcacttg	gctgtattgc	600
gaggctcctt	tccagctgct	tagttcacat	gatgcctggg	ttataaaacc	tagtgaagtg	660
tt						662

<210> 45
 <211> 1026
 <212> DNA
 <213> Homo sapiens

<400> 45						
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gatgtccaag	ggaggtcagt	gataccagga	cacgacacca	tttgcagcac	aggagttcag	120
acagcaccgg	ccctggattc	acacagagga	actttctccc	aaaagaacca	atcaacttct	180
aactgttgtg	gttatttgca	taactcaa	gagaagcgag	ggccttttgg	tttaacttct	240
gtgtcgtatg	aggtctggaa	tgagtcatat	gaacactgga	attgtggaat	tgagagaagag	300
aatgaggacc	cacacactat	gataaaagtt	aaaaagcaag	tcaaagagtt	ccttctcttg	360
tactcatatc	tgcaccacgt	ctagaacaac	ttcccttccc	aagagaatta	aaatacattt	420
tttgtttttc	cctgcaatac	tctgtagtac	tactgttctg	gaatttcagt	tctcatgcaa	480
cataccggcc	cctttgcaca	gtgaaaacgt	aagtatgata	agtcccagta	tgtggaagaa	540
ctagaagaac	ccaggagttg	tgatcctaaa	caacttttaa	ctgggccttg	ttatgatttc	600
cacgtgtgat	actttactca	ttctgagatt	aacagtcgca	ctgggtgaaac	tgacagccgc	660
tatatggcca	tactaatgta	acttattaca	agacaggaag	tgagaagagt	tgtttgatct	720
agttgaaacc	atgggggaat	ttgggaaagc	agagtaaatt	tgctaatttg	gaagtctgag	780
acttcagagc	ttgttattct	tgaagcagtt	gttaaaagtc	agtggacatc	ctgattctca	840
ggctctccgat	gtggatgtgc	atcctctccg	gcagcatgat	ttttccagga	ccagaatgtg	900
acaggagcgg	ccccgcaata	gaattgcagg	ctcacaggcc	ggctgcagca	cttggctgta	960
ttgcgaggct	cctttccagc	tgcttagttc	acatgatgcc	tggtttataa	aacctagtga	1020
agtgtt						1026

<210> 46
 <211> 112
 <212> DNA
 <213> Homo sapiens

<400> 46						
tggtttttgt	gtaagttaaa	gatgatgttg	agcaagccac	tttaaaacaa	cactgatttt	60
tccatataaa	caatagtttt	atatgaagaa	gtgtcatttt	gtttttcatt	tc	112

<210> 47
 <211> 249

<212> DNA

<213> Homo sapiens

<400> 47

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ctggagtgaa cttctctact caagctaaat tgttaattag ttcaaggtac accagagatg 60
tgatcttggg atcttctgat agccaacatt tattaataca gtagtcattg gtcttgatta 120
gatttatgtg tgtatgtggg tgggcgggtg gcagcttaga gtaattttta ttataaaaaa 180
ttaaaattac ttagagtaat ttttaattata aaaaattata aaatttttag tgttataaaag 240
actagtgtt                                     249
```

<210> 48

<211> 768

<212> DNA

<213> Homo sapiens

<400> 48

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tatatatttca gaggcaaacg atccttgctc attaaaaaaa ggaaatagaa attcaaaaaca 60
aaaatgcctg tatctgatgg gaaagatgag cccaatgttc ttttttaaaa aacctttatt 120
atgaaatatt tcaactgaac atatgcagtt tatattgtta taaagcataa caagcaatca 180
aacagctgtg aaccaccac tccatgtcag aactagaact tcccaaagca gtcggagctg 240
aggtagagatc cactctgatg cccttcccca actccacgcc accccccaag acctgaccac 300
ctgattactc tgggattttca tttttgtctc gttcccttgc tttgctttat gtctttacca 360
aatgtgaatg tgtgcctaaa caatacagtg ctcgatttgc ttgtgtttta gctttattac 420
aaatataact ttgatccttc tgctacttgc aattctaaat ttgatattac gagtctcagc 480
ctcatcggcg ttgatgcgtg tgaccgacat tgattcactc tcaccagtac gtggtgtgtt 540
ccgttgcatg catgcacccc tgctggggta tccattctcc tgttggtgga cctttgggtg 600
gtattagttg ctgggtcatc ccatgatgct gtccctcttgc aggtctccag gacacatgtg 660
catgagttcc tctaggaaac cacggtgtac aactgctggg ttgcaggccc aggggttctt 720
ccacttctct atcctcccaa gtaggggtcca gctggcetta gtgctgcc                                     768
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<210> 49

<211> 2901

<212> DNA

<213> Homo sapiens

<400> 49

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aaaatgcctg tatctgatgg gaaagatgag cccaatgttc ttttttaaaa aacctttatt 120
atgaaatatt tcaactgaac atatgcagtt tatattgtta taaagcataa caagcaatca 180
aacagctgtg aaccaccac tccatgtcag aactagaact tcccaaagca gtcggagctg 240
aggtagagatc cactctgatg cccttcccca actccacgcc accccccaag acctgaccac 300
ctgattactc tgggattttca tttttgtctc gttcccttgc tttgctttat gtctttacca 360
aatgtgaatg tgtgcctaaa caatacagtg ctcgatttgc ttgtgtttta gctttattac 420
aaatataact ttgatccttc tgctacttgc aattctaaat ttgatattac gagtctcagc 480
ctcatcggcg ttgatgcgtg tgaccgacat tgattcactc tcaccagtac gtggtgtgtt 540
ccgttgcatg catgcacccc tgctggggta tccattctcc tgttggtgga cctttgggtg 600
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gtattagttg ctggtcatct ccatgatgct gtccctcttgc aggtctccag gacacatgtg 660
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ccacttctct atcctcccaa gtaggggtcca gctggcctta gtgctgccat gctgagagct 780
caggagccaa atctgccagc accctgatct tggacttcca gaactgtgag aaataaattc 840
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tgttctctgga gcaacgctag tggcctgggg aagctgggce ctgggaccag ccctgggctc 960
cggccactcc atggagcccc tggcaaaggg ctgatgtgtc ctcagtgaat ccaggtcaga 1020
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cttcacagcg agacctggcc tgccctgcaa gtccacacaa caggagcccc ccatggcccc 1920
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gccttctggg agacagccct ctctttttcc ctctcccctt tgcggaacac taaggcactg 2700
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ccacttaggg atcattagaa gagcctgact cagcagttca gggccctcgg tgtcggcatt 2820
tctgaccact ccatgggggt gccatgctg ctggtttctg gaccactcat tgagaaggag 2880
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2901

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<210> 50

<211> 297

<212> DNA

<213> Homo sapiens

<400> 50

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 gcaaaacgtg gactggaaat ctgtgcagtt aggtgactat gttgttgatg cagtaattaa 180
 catattaaca tatctagtga ttaatgaact gtagaaggac aagatggaga tcagttgtat 240
 attcctggga tctgtccttg gtactagctt gttaagatgg tataatgac ttttatt 297

<210> 51
 <211> 987
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (502)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (585)
 <223> a, c, g or t

<220>
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 <222> (588)
 <223> a, c, g or t

<220>
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 <222> (594)
 <223> a, c, g or t

<220>
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 <222> (614)
 <223> a, c, g or t

<220>
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 <223> a, c, g or t

<220>
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<220>
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<222> (641)
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<220>
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<223> a, c, g or t

<220>
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<222> (653)
<223> a, c, g or t

<220>
<221> unsure
<222> (663)
<223> a, c, g or t

<220>
<221> unsure
<222> (665)..(667)
<223> a, c, g or t

<220>
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<222> (669)..(700)
<223> a, c, g or t

<220>
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<222> (726)
<223> a, c, g or t

<220>
<221> unsure
<222> (729)
<223> a, c, g or t

<220>
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<222> (756)
<223> a, c, g or t

<220>
<221> unsure
<222> (769)..(770)
<223> a, c, g or t

<220>
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<222> (786)
<223> a, c, g or t

<220>
<221> unsure
<222> (797)
<223> a, c, g or t

<220>
<221> unsure
<222> (843)
<223> a, c, g or t

<220>
<221> unsure
<222> (845)
<223> a, c, g or t

<220>
<221> unsure
<222> (869)
<223> a, c, g or t

<220>
<221> unsure
<222> (894)
<223> a, c, g or t

<400> 51
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aaaaaaaaaa aaagtctgaa atttgggcct aattgctatt taccagcga tagacacctg 180
ttctagctgc gacattggct catggatctc acacctgaga ccttagggag agtagagggg 240
aaatttcaag cagctgccag tccatttaga gatagacagc tttaacttgt ggggtttgctg 300
tgtttatatg tatacgcata tattttaaaa tactgtttgt ttagtatgta caccataaac 360
cagagggtat atattaaatg ctgtgtacca ttatttcaca gtcaattgct tatctgaagg 420
ccgtacacat actgggcgta cagctaccac tgtgattgct ttaaaaataa tgcactgaga 480
ctgaattcag tatcaataac anggcacgtg tcttcaaaa tgtccactcc aggccttggg 540
ggaaaatggg ttcttaggat gaatcagagg gaaaatttta atcanaenta actnttcttg 600
gaaagattcg acancgtntc agtcatttcc tttgcnaaat ngctncgacn tcnctctttt 660
gcnannntnn atagggaac ccttctgtct tggtcagagt agcacaatct tctgttttag 720

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gtgttnatnt tttgaaatca gtaatgatat ttgtcnttgt ttcttggttn gccttcaa 780
acctcncata tatactnaag agaaacagac tacgagcatg atgacagcat tcacttcttg 840
cgnaatatac aaatacaaaa accaaaaant aattaataat ggagacttta tgtnacacaa 900
gttaatacgt tacctaagt tatgttttagt agcagtttga aattcaagtt tattaataatg 960
ttattagatc cacaaaaagt actgcct 987

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<210> 52

<211> 293

<212> DNA

<213> Homo sapiens

<400> 52

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aagatgaatg accagacatg tgggttgccc tgctcagctg tgtcagaacg gcttgatcct 60
cagccccgca caggaccact ctctggcatg caccagcgga gaaactggag gcacactggc 120
gcaggagcag cccagggctt gagggctttt ccagccctgt ctgtttaccc acgtatggaa 180
atgtttactt ttctatTTTT taccttaaat atgtaacact ggtttgacca aactctcaga 240
ttcatggcac actatcatca ttggtagggtg atgggttgct acgggttttta ata 293

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<210> 53

<211> 652

<212> DNA

<213> Homo sapiens

<400> 53

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<211> 1300

<212> DNA

<213> Homo sapiens

<400> 54

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<211> 2890

<212> DNA

<213> Homo sapiens

<400> 55

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<211> 581

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <223> a, c, g or t

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<210> 59
 <211> 538
 <212> DNA
 <213> Homo sapiens

<220>
<221> unsure
<222> (355)..(360)
<223> a, c, g or t

<220>
<221> unsure
<222> (380)..(382)
<223> a, c, g or t

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<211> 468
<212> DNA
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<222> (371)
<223> a, c, g or t

<220>
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<222> (378)
<223> a, c, g or t

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<221> unsure
<222> (396)
<223> a, c, g or t

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<223> a, c, g or t

<220>

<221> unsure
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 <223> a, c, g or t

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<210> 61
 <211> 370
 <212> DNA
 <213> Homo sapiens

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<210> 62
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 62
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<210> 63
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 <212> DNA

<213> Homo sapiens

<400> 63

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<211> 274

<212> DNA

<213> Homo sapiens

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<223> a, c, g or t

<220>

<221> unsure

<222> (22)

<223> a, c, g or t

<220>

<221> unsure

<222> (45)

<223> a, c, g or t

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 <211> 264
 <212> DNA
 <213> Homo sapiens

<400> 65
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 <211> 1031
 <212> DNA
 <213> Homo sapiens

<400> 66
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<210> 67

<211> 537
 <212> DNA
 <213> Homo sapiens

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 <211> 1645
 <212> DNA
 <213> Homo sapiens

<400> 68
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 gtggtttccc tgcaacaaaa atcaagactt ccttagttgg gtagcgttgt ctggtcttgt 240
 gtattaattc agtgtctcct tattatgaca tttcctttta ggcaacaggc attagcataa 300
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 ggggttggtta tagagaaaca cagacatttt ggtcctatta gtgtgctaac gctggaaata 420
 acgagaccag aggcttggtt acaggcagaa gggatatgaa aggacgaaaa ggaaagaaat 480
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 cactgacccc atttataatc tagaacagca gctttttggg atttgagttt tgttgccttg 1560

tctagggtttt tggagggtgca ctttaccatg ttgtattaca ggatggatag acagtgagat 1620
 ttacgtgaca aaatagcctg agttt 1645

<210> 69
 <211> 164
 <212> DNA
 <213> Homo sapiens

<400> 69
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 tatactgcta gctagatgtg taaatgtggt aaagtcctt tggaaaacct tatcagagtt 120
 gtctaattga ggtaaactta cacctgagcc agcaattgtg ctca 164

<210> 70
 <211> 1490
 <212> DNA
 <213> Homo sapiens

<400> 70
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 tgaaaatcgg aataatcaga aacctgacca tgatgggtgaa agaaatatgg aagtaactcc 180
 aggagaaaag atacttagga acaccaaaga gcaacgcgat ctgcataatc ggctgagaga 240
 gattgatgaa aagctgaaaa tgatgaagga aaatgtgtta gagtccacat cagctctctc 300
 tgaagaacag ttaaagtgtc ttctggatga atgcatactt aaacaaaaat ccatcattaa 360
 actttcttca gaaagaaaaa aggaagacat tgaggacgta acacctgtgt tccccagct 420
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 ctcatgtctg tgaaactggg acaacctgcc ataagatgaa atgaattgtc tcaacaaagc 1320
 aatattagaa gagcctttac tatcttattg gtgatgacac gtttcttaag taggagtttg 1380
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 tttcagagtt tgggcctttt agattgcac aaataaaaaat gagctacttt 1490

<210> 71
 <211> 225
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (22)
 <223> a, c, g or t

<400> 71
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 tcttgtgtca ttcactctgg ggaaagtcag ctgacactcg tgaggatgct caagtggcct 180
 tgtggagagg cccacgtggt gatgggctga ggctctctcc agcag 225

<210> 72
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 72
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 agggtagctg gcagggggcc acccccacac ctgcaactgc ctcacctgct ggagaccctg 180
 gcagcatcaa ctccagtaca tctaattaag tttgggggat aagcaggaaa gagcgctgcg 240
 tgagctgcca tgtatcgcca gccgttgctt tgttactgaa cgtgccgccg acgacctcag 300
 aaaaccacaga tgggtggtgg tgcccatgag cccctgctcc tcagccaggc ccgtggcgcc 360
 ggctcatgtg tctgctgcga ctcgagatgg cctgaaacgc cactcattct cccacttcag 420
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 tgggcacaga ttttccattt aaaatttttg acttatttt 519

<210> 73
 <211> 1315
 <212> DNA
 <213> Homo sapiens

<400> 73
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 gataacatgc tgctggctga gggcgtgtgc agggccgaga agagaggaag aggaggagcg 180
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 ttcagcgcca tccagatgca gttgaagcag agcacctgtg aggcagtgat gaccctgcgt 480

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gagctggcca	ggaagggcgg	cctcaccatc	tcccaggtct	ctaactggtt	tggcaacaaa	660
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aaaacggctg	tggataccac	ggaagtggg	gtcccaggga	accacgccag	ctgcctgtca	780
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accctgcgga	ctctggcctc	tctccagcct	cctcctgggg	gaggetgcct	gcagtcccag	900
gcccagggtg	gctggcaggg	ggccaccccc	caacctgcaa	ctgcctcacc	tgctggagac	960
cctggcagca	tcaactccag	tacatcta	taagtttggg	ggataagcag	gaaagagcgc	1020
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tcagaaaacc	cagatgggtg	gtggtgccca	tgagccctg	ctcctcagcc	aggcccgtgg	1140
cgccggctca	tgtgtctgct	gcgactcgag	atggcctgaa	acgccactca	ttctcccact	1200
tcagttcggt	tttttgacag	taattttatg	gtaacgctat	gaattgaatt	gtctgttcta	1260
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<210> 74
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (324)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (355)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (370)..(371)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (385)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (393)
 <223> a, c, g or t

<220>
 <221> unsure

<222> (395)..(396)
<223> a, c, g or t

<220>
<221> unsure
<222> (399)
<223> a, c, g or t

<220>
<221> unsure
<222> (408)
<223> a, c, g or t

<220>
<221> unsure
<222> (424)
<223> a, c, g or t

<220>
<221> unsure
<222> (427)
<223> a, c, g or t

<400> 74
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ctgccatcac catgattaca cactagtttt taaagttaat ataacataga actgacagta 180
ttttcttcag agcttaaatt tccttagata ttttctttct acatagtagg tactactcca 240
atgtaattga tgtatcttta aaagaatata tatatagcgg tgattttgca aagcatgaat 300
tggtatcatc atgatggat attntctata attatgtttt ttacaattac cttgntgatt 360
ttttccctcn ngtgaaatca gcatngccgt tantnngtna ttcattgntc atactatata 420
gtanaanccc acctt 435

<210> 75
<211> 704
<212> DNA
<213> Homo sapiens

<400> 75
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ctctccatct ccaggtttat attcttcact tggtacttta tcagaacact ttgtactgtg 120
atagcaactc ttactcaaatt ttggtaaaac aaacagataa tgagtaaatt gctcttgaag 180
gagtacagcc tctaagactc attgggttcag tgacttcaga aacatcactg aggactcagt 240
ttcttcccat ctctctgctc caccatccgt ggggattggc ttctttctca ggcagtttcc 300
cctaagtggc cacaagatgt ctactagcca caaatggaat aagagggtcc cttgtccatg 360
tgcaccagga gacagaaacc tcttcacagc ctttcaatac atattgtccc ttcttttgat 420
ctgaatagtg gccacttaca tcatgaaggg cagtaacat actcaatgcc cgcactgata 480

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gggcatacat ccggacagga tccacctcta gggctgggga tggcttagct ccagctatgc 540
catatgacta tgtgtagaag aaaaaaagga aagtgggttac cttggggaga agtagaggaa 600
caaatgctgg gtaagaaact aatagcacca ttaaaatggg gccattgtac ttcattgtgt 660
tattcttttt attctctaaa taaaacaaat tctgaatata aaaa 704

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<210> 76
<211> 539
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (527)
<223> a, c, g or t

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<400> 76
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aattttttat ttttatttta tttggttaaa agcgggtgtc tgatcagtga cagaagtgc 180
ttgggtccac ctttaacaga acgttgggtg agagcaaata agcacaatat tctcctctat 240
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tttttctggc caaggtgata agcaaatact tgtatagatg ttatgactgt gcaaatgggt 360
tgcaaggaga cctcagaaat gacttgcala agagaatttt gaaaaaaaaa ttaattggc 420
tcgaacacaa tagaaagcca gtcattaatt gtaataactc tctagtgttg atactctaag 480
gtatgagcat acctcagaat taggaccagt tcatattata ctaaaanata aatattgtc 539

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<210> 77
<211> 592
<212> DNA
<213> Homo sapiens

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<400> 77
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aaaaaagggt ccaggcagct cacggacaga ggtgctcgtg ccacacagaa ttctcagttc 180
tggaattttt tgtcacccaa attgctgagg actcgggcag ctacgtcgcc tgtaccaggg 240
gtgcgcctgc cccaacagtg cctgctgggc cccttaaata cgccagcctc ctagctgagc 300
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gcctcgggtc caaccccagc cctgcttctg ggaggctctc ctgagcctca gtccccctcag 420
gggtgtggct gctgggtctt cgtggcggtg agggacaagt cggagtgcag ggggtcaagg 480
acaggaggtg gctgggtgta gcaataatcg gaaaaatgac agtggctcgg agcagagtgg 540
tggtgggtgga ggagaggggt gggcattgtt atctcgaatg aaaacagttc gt 592

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<210> 78
<211> 603

```

<212> DNA
<213> Homo sapiens

<400> 78

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ctgagatgct cgcacatccc caacccccgt ggtgacaggg tgggagtcct gtaacctgtc 60
acaccagcat gtgagggcca catgccccac gaggggggtg atctaaggct gagtttgggc 120
agagaggcca aaaaaaaggt gccaggcagc tcacggacag aggtgctcgt gccacacaga 180
attctcagtt ctgggaattt ttgtcaccaa aattgctgag gactcgggca gctacgtcgt 240
ctgtaccagg ggtgcgctct ccccaacagt gcctgctggg ccccttaa at ccgccagcct 300
cctagctgag ccatcagtgg ctcttggtg gcctgcaggg tctcctgatc tggcagagtc 360
ttgatttagg agcctcgggt ccaaccccag ccctgcttct gggaggctct cctgagcctc 420
agtccctca ggggtgtggc tgctgggtct tcgtggcggt aagggacaag tcggagtgc 480
gggggtcaag gacaggaggt ggctggctgt agcaataatc ggaaaaatga cagtggctcg 540
gagcagagtg gtggtgggtg aggagagggg tgggcattgt tatctcgaat gaaaacagtc 600
tgt 603
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<210> 79
<211> 133
<212> DNA
<213> Homo sapiens

<400> 79

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agtttctctt gttgggttat ttttaatttg acctgggtat ctttttccag ccatatttaa 60
ctttgtacat atcagaatgt tctgataaaa cttaactttt attaaagtgt ttgtgatata 120
agcataaaaa aaa 133
```

<210> 80
<211> 349
<212> DNA
<213> Homo sapiens

<400> 80

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aaatagaaa tgacagcaat tcttttctta tgcaaacc caactggaaaa gaaaataact 60
ggcattgcaa aagataatgt gtacccaaac tagcagatta tatcaciaac actttaataa 120
aagttaagtt ttatcagaac attctgatat gtacaaagtt aaatatggct gaaaaatgat 180
aaccagggtc aaattaaaa aaccaacaa agggaaacttt ttttttttta agacacaagg 240
tctcattctg ttgcctaggg tggagtgcag tggcatgact acagctcact gtgacctcaa 300
actcctgggc tcaacaatc ctcttgctc agccccctga gcagcagct 349
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<210> 81
<211> 959
<212> DNA
<213> Homo sapiens

<220>

<221> unsure
 <222> (496)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (498)..(551)
 <223> a, c, g or t

<400> 81
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 cttgattgcc aaaagtctct tccagtctaa tactctggga ttctgggcca gtttctggtc 180
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<210> 82
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (4)
 <223> a, c, g or t

<400> 82
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 ggtcttactc ctctatztat ctcaacttta ttaatttggt aatgttaagt cttagcacat 120
 ttagagaatt ggcttttaag tggcacatat ccatatacta acccatgcca tatgctaaac 180
 taatctacac gtgataggca aactcatac tatgtgctct gatggctgct atgctgacct 240
 ctttcaccaa tggctgccac ttgtcacact gtgtctctc atgagggagg aggtgtccta 300
 tctgcagtca ttatttatac atggcttgaa gatttgcaag atcgtaattt tttaaaaata 360
 ccacttcatt ctgattatga aagcaaaatc tactcattgt agaaaatatg aaaaactcta 420
 gtgtacaaaa aggatattaa aaactacctg tggattt 457

<210> 83
 <211> 844
 <212> DNA
 <213> Homo sapiens

<400> 83
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 ctgccgggag tgtgccagg tcaactgctat ggccttcgca gggtgactgg caggtatcaa 240
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 tttggtcaaa tatctaaaat gcaagggtgaa agtgcccttg tctctatgct tctaaaatcg 780
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 tttc 844

<210> 84
 <211> 3180
 <212> DNA
 <213> Homo sapiens

<400> 84
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 ggcagggttc ctgtagagag ccagggtgta acccctgcct ctcccgtcta ggacgcctcc 180
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<210> 85

<211> 996

<212> DNA

<213> Homo sapiens

<400> 85

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<210> 86
<211> 523
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (257)
<223> a, c, g or t

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<220>
<221> unsure
<222> (270)
<223> a, c, g or t

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<220>
<221> unsure
<222> (272)
<223> a, c, g or t

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<400> 86
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gaaagagggg agcctgggga ggctgggtta caaacttcaa aaactccacc aaccacaccc 180
aagctctagt ccctgtagta gtaacaatat tactggcttt ctgtgcgta agacattttt 240
ctaagcactt tacatgnaat gcctcattcn tncttcacaa ccaccctgtg tattttttatt 300
cctccatttt acaaaaaagg aagctgcagt ttcgagtggg tgatactttg cccaaagtca 360
tatagctaat aaggatagat cttatactta aaccaggca gataacaaag cctatacact 420
taacctctta agaatcataa ttccaaattg tatttcttta gtcagtttac agtagaagaa 480
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<210> 87
<211> 390

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<212> DNA
<213> Homo sapiens

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<222> (122)..(251)
<223> a, c, g or t

<220>
<221> unsure
<222> (333)..(334)
<223> a, c, g or t

<220>
<221> unsure
<222> (338)
<223> a, c, g or t

<220>
<221> unsure
<222> (343)
<223> a, c, g or t

<220>
<221> unsure
<222> (348)
<223> a, c, g or t

<220>
<221> unsure
<222> (365)
<223> a, c, g or t

<220>
<221> unsure
<222> (381)
<223> a, c, g or t

<400> 87
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ccttacaaat tgatggtgag aattaaatga gggnatgngt gcnaaaangt gtgtgtatgc 360
ctggnacctc tttggcatgc nacttttgtt 390

<210> 88
 <211> 900
 <212> DNA
 <213> Homo sapiens

<400> 88
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 ttaaaaaata cttctagaga gattctgaaa tcttaatttg gttgcacttt ctggtaatat 180
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 ctttggcaca tgctgaaatc tgggattttt ttttttgact ttgataaatt tatcaaaaag 840
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<210> 89
 <211> 1173
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (1030)..(1053)
 <223> a, c, g or t

<400> 89
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 tttgggttgca ctttctggta atatatcttt tgaaaactat tttgatattt ctttcatata 240
 acattatttg atctgtatca ctaagttaat tgtctaaaag gtaactgatt tcatcaaaacc 300
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 atgtcgttgt acttactcct ttctgaaatg atcagatttt taaaaaatgg atttctcata 420
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 tattaactaa aactgtgttg tttttatttt ggagtagttc tcataattca ttggtaggga 660
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 ctaaaagatt tggatgtgtg tatttcttta acttgacgta aacatgtatc acaaacatat 780
 cttttaattc caattaaagg ggtgcttttg cacatgctga aatctgggat tttttttttt 840

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gaagctttcn nnnnnnnnnn nnnnnnnnnn nnnttctgaa ggaagatttc cattaggtaa 1080
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<210> 90
<211> 231
<212> DNA
<213> Homo sapiens

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<400> 90
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tttgagattc atccatattt ctgagtatat taatagttct tatttctgag tcaactccatt 180
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<210> 91
<211> 2518
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (2502)
<223> a, c, g or t

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<220>
<221> unsure
<222> (2508)
<223> a, c, g or t

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<400> 91
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tccagcactt tgggaggcca aggtgggagg attacttgag gtcaggagt tgcagaccagc 240
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<210> 92

<211> 611

<212> DNA

<213> Homo sapiens

<400> 92

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<210> 93
 <211> 568
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (60) .. (116)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (435)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (442) .. (509)
 <223> a, c, g or t

<220>
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 <222> (538)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (561)
 <223> a, c, g or t

<400> 93
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 cacaaaaatc cttgngcatg gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
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<210> 94
 <211> 631

<212> DNA
 <213> Homo sapiens

<400> 94
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 tttttaacta tgtgaaatgt ttctttcctt g 631

<210> 95
 <211> 1123
 <212> DNA
 <213> Homo sapiens

<400> 95
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 ggacggcaag actgatggag attgtggtct aaatgcctct aaccactcc ttaaaatgac 720
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 aagagattta tcatctcccc aggcataata acagattctg tcctaggtgt tgtgatgtaa 1020
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<210> 96
 <211> 516
 <212> DNA
 <213> Homo sapiens

<400> 96

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tactttctgc ctatcaaacc tgttttttac cttttcctgt cctttcctgc cttcttttag 180
atgcttattt tttatgtttg ttctgctgtt ctaacttgga agttacttaa acatgaatct 240
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ctcattttta ttcacattgt cattattgca ttgttttaat tctgtctgta ttttatcttg 360
acaggtttaa tttgtatttt caatagccat ttagatttac ccacaaaatt tatccttttc 420
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gcttcccacc ttttgtgtaa cttctagtag tgaatt 516
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<210> 97

<211> 1373

<212> DNA

<213> Homo sapiens

<400> 97

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atgcattgct tgctgatttc atcatggtgc aaacaacaca aatcttgatg gtttagccta 180
ctacacacct aggctatatg gtatagccta ttgcttcgct cctaggctac aaacctgtat 240
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cgcagctgtg tagaacactt accatgcatg gagtttgcag gattggaagt tgctctgggt 420
gagtgagtgg tgagtgaatg tgaaggccta ggacattatt gtgcactgat tgtagactgg 480
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gacagtgcag acagcgaaga cacttttttg cttggcatgc tgggtgattga gaaaccgtgt 660
gagctttttt actttatgaa gttcataaatt tttaaatttc ttgactctta tagtacttag 720
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<210> 98

<211> 632

<212> DNA

<213> Homo sapiens

<220>
<221> unsure
<222> (496)
<223> a, c, g or t

<220>
<221> unsure
<222> (595)
<223> a, c, g or t

<220>
<221> unsure
<222> (601)
<223> a, c, g or t

<220>
<221> unsure
<222> (623)
<223> a, c, g or t

<400> 98
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tttttagata gctttttatg tggcttggaa gtataaagat gtgaaaaaat agttgaagggt 180
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tataattggga gtgggatctg aatgtatcag aagattcaac aaagcagttt ggggtataaa 300
tataaaaagc aagggtttta ttcttatattt aagaagtgtg aaatacactc ctactctaag 360
gtaatgtcaa attagctata actattaaat gcaggtttgt ttcattatta tggtatattt 420
tagtgactta aaggatgaca gaggaggcag aagaagatga accagacttg ggatctatcc 480
tggacacata tttganttat atagctactt aatttaaaaa aatttcttaa aatttatagt 540
cattcctaatt cttagattga tatgaaaact gttgttttca ctcacagtgg ttcncatat 600
natcacaata cagttaacca ttncgtgtat at 632

<210> 99
<211> 1142
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (929)
<223> a, c, g or t

<220>
<221> unsure
<222> (934)

<223> a, c, g or t

<220>

<221> unsure

<222> (968)

<223> a, c, g or t

<400> 99

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atgggagggg agccaggtct gaatctccca tctttgaaca ccaggaatag tactttttat 180
ttgtctatgg aaagagggtg tccttgcttc tctgtgtgga tgagcaacat atagttgcta 240
tgaatttcta ttttgacctt gaatttccac caagttcaat ttttagaaat atgcattact 300
atgtaccta tagttttttt agcatgtaca atctgccaac ttccttaca cattgataaa 360
agtagaatac acatataaa caactcaaac ttagaaactg accaataaaa gagacactat 420
ttattttctt ttttttttcc agaacatttc aaaaacttcc catactgttt ttctgttagc 480
ttaagcgttg ttaaatcctt cactttcaca cctactgtca agaaccctaa tttggctgaa 540
gcagcttaag tgattcagtt cacgtcaaac aacatttcac aggattctta ccccaaagc 600
aactctttac tatccagtac ataagactct agaacattaa aattctttat atagtgccat 660
gtggcatcta aaataacttt ggctaggaaa taaaacatat ttgcagaaag tttgggggtg 720
aaatcaaaga atggatcaaa gtggcccttc atttggctcc acgtcatctc acaatagtga 780
aatacagcag aatgtcacta aactaccata aaactaaggg gagagacttt gcaaaaacag 840
ggagtgcag acacgttttt tgctcctgtt ttaaagtaaa ttgtactaat gacaacaata 900
gtgatctttt ataggcccaa gttggatcng tgancaattt atagcatttc tgtttcaaat 960
attcaaangc aaaaagtaat ctgccaatta gaaaacaaaa aacttcaaac ttaagtgatg 1020
taatgatgga gcacctgtat ttgactagat gttatatata tgccattgaa agacatagta 1080
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aa 1142
```

<210> 100

<211> 229

<212> DNA

<213> Homo sapiens

<400> 100

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aaatttttac tttccatctt aatgtaacct tatgctattc tgtattttta ctgtatattg 180
cttttacaat aaatataaaa tgaaatgttt atgttgacat ttcagtgtg 229
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<210> 101

<211> 1382

<212> DNA

<213> Homo sapiens

<400> 101

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taaccagagt	cctaagatgt	gcaaggtcag	tgtgtgaact	atgctggagt	gtgatgtgaa	180
gcagagatca	agaaattagt	acaacagaga	tgttttactg	ttgtacttcc	catcagtga	240
ggatgggaaa	gggcttttat	tacataccag	acactatgat	tacatctcat	ttttgtacct	300
tatgaaatat	ctatgtctac	tttatgcatg	aagaaactga	tgttcatcaa	gttttagtag	360
cctatccagc	actacagtgc	tagtaattga	gttaagccag	tgacttgacg	agctaggatt	420
aaaacctata	tattaggccg	ggattacagg	cgtgagccac	cacactcagc	cagaaaatcg	480
tttttaaggg	ttcttttaga	ctatatccag	aaaaagtga	ttactaaatt	tttttttcta	540
gacagagtct	tgctctgtta	cccaggctgg	agtgtagtgg	tgccatctca	gctcactgca	600
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taggcatgta	ccaccatgcc	cagctaattt	ttatattttt	agtagagatg	gggttttgcc	720
atattggcca	ggctgggtctc	aaactcctga	actcaagtga	taacaccac	cttggcctcc	780
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aatttttact	ttccatctta	atgtaacctt	atgctattct	gtatttttac	tgtatattgc	1020
ttttacaata	aataataaat	gaaatgttta	tgttgaacaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	gggggggggg	gggcaaaaaa	tatctcccga	1140
ggggggccca	attgacgtca	cacctttttt	tgtgcacaaa	ggggccccca	aaggagggcc	1200
gataaaacga	aggacgggcg	gccgggggaca	aaagcgctgt	cggcggaac	cgcgccttgg	1260
gaactggggg	agggacccac	ttggcgggcc	accggggcac	acccccaaaa	gatagagccg	1320
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ca						1382

<210> 102

<211> 816

<212> DNA

<213> Homo sapiens

<400> 102

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tctcaacttc	tagcaaatgg	atattttacag	agcattatag	gctctggaac	tagaagatac	120
tgcattctta	acaatataac	aataacatag	cttaagcact	tatcaagtta	tatggtagat	180
taccattagt	aatacattga	aatatattaa	atthagtttt	tggcaggctg	gataaacacc	240
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ttaaatagtc	tttttatcac	aaaattttaag	ttcataaatg	ttcatgctcc	tgagcaaatg	360
aatcttaatc	attcagttta	gtatacagtg	aagaggaagt	attggcatga	ataatcaaaa	420
aacaaaaaac	atgcttttga	ataccttaaa	ttatccacat	gtatcatctg	gataatcatt	480
taaccctttt	ccatactgcc	cagcttttatt	ccaggaacca	cctccagcta	ttaaaaaagg	540
tttcagaaat	tcagagttat	ttttattcag	gcaaagaagt	accaagtatt	gtgactagtt	600
agataagggg	tggggggaag	acagtagatg	gtggatcatt	aggcatatta	taagaataaa	660
actagtttta	tagtgcttca	tttttactta	cccattcaca	tatttttgctt	acatttcgta	720
gcatcattta	ataattttaca	aagaaagttg	tattacattg	tttagatttt	gtacatacag	780
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<210> 103
 <211> 980
 <212> DNA
 <213> Homo sapiens

<400> 103
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 tgcattctta acaatataac aataacatag ctttaagcact tatcaagtta tatggtagat 180
 taccattagt aatacattga aatatattaa atttagtttt tggcaggctg gataaacacc 240
 ctactaattt tctaaatttg taagtagaac tcttcataatt ttgttacact tttgttgaag 300
 ttaaatagct tttttatcac aaaattttaag ttcataaatg ttcattgctcc tgagcaaatg 360
 aatcttaatc attcagttta gtatacagtg aagaggaagt attggcatga ataatacaaaa 420
 aacaaaaaac atgcttttgta ataccttaaa ttatccacat gtatcatctg gataatcatt 480
 taaccctttt ccatactgcc cagctttatt ccaggaacca cctccagcta ttaaaaaagg 540
 tttcagaaat tcagagttat ttttattcag gcaaagaagt accaagtatt gtgactagtt 600
 agataagggg tggggggaag acagtagatg gtggatcatt aggcataatta taagaataaaa 660
 actagtttta tagtgccctca tttttactta cccattcaca tattttgctt acatttcgta 720
 gcatcattta ataattttaca aagaaagttg tattacattg ttttagatttt gtacatacag 780
 gtttagctagg tttttagtaa agtgaccttg tgaatgtttt agaagggcaa gggaaattat 840
 gacccttggg taggagaaaa aaaaaaatgc tgcaagtact agaacactaa gattagccac 900
 agtgattttg aagaaaatgt gcctctattg aatggaatta tggaattatc cccctacttt 960
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<210> 104
 <211> 426
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (83)
 <223> a, c, g or t

<400> 104
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 ccggtctgca gcagcagggtg acagcagcag ggacaatgat aaggagattg gcctgaagga 180
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 gcttgagtca ggggtctccgg ggagacgtcc tcagggtccct gtggagcggc cccgaagcct 300
 cgggagccag cttcactaga caagaggcag aggtagagaa tgcggctgtg gtgcgtaagt 360
 gagtcactgc gtgaggcagt cttttcaaag cagggtgggtt tgtgttggtgac ggattgatgg 420
 tgggaa 426

<210> 105
 <211> 816

<212> DNA

<213> Homo sapiens

<400> 105

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gttgagaaaa aagcaacctt ttttaatgct taatattggg atttagtatt cttagagagt 120
tagttaaagg tccatgaaag aacaagatgt tatgaaaaag ggacagaaca agcaagtctc 180
cttgaaaatt aaaaatttga gcacccaaat gaaaaattca ataaagtaga agataaagtc 240
taaggaaagta ggataaaaag acaaaaatag aaaataggag tgaaagataa gaaaatttga 300
agctaaatca aggatgtcca atttttgaca ataagagttc cagaaagaaa ggacagagaa 360
aggggaaatg gaactttcca agaacgaaat gacgcaatct ccagattgaa agggataat 420
ggattaagat tcacttccaa acatatcata ccctagaagc ttctggaaag agaaaaaagt 480
aagccaaata tgtaaagtat cagaaatgga aagtcttctc tctagcaaca ctgaaagcta 540
aaagactgtg aagaaaggcc ttcagaattc tgaggaaaaa tgcttttggg aatagaactc 600
tataaactaa agactcatat caggggctca aaaaatgtac ttctcatggt tatgctccag 660
caaaggacac tgataagaaa gaggaagtca tagatggagg aaacagggaa cctactatgg 720
aagagacaga gagatgtccc aggagaagag aaattcatct ggcctatgga acagccagtt 780
ggtattacag cagaaggatg cagtgtctct gatgga 816
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<210> 106

<211> 884

<212> DNA

<213> Homo sapiens

<400> 106

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gagaggcaat gcaaacaaca agaaaaacat gaaacagaat atgaatgaaa aaaagataat 60
gttgagaaaa aagcaacctt ttttaatgct taatattggg atttagtatt cttagagagt 120
tagttaaagg tccatgaaag aacaagatgt tatgaaaaag ggacagaaca agcaagtctc 180
cttgaaaatt aaaaatttga gcacccaaat gaaaaattca ataaagtaga agataaagtc 240
taaggaaagta ggataaaaag acaaaaatag aaaataggag tgaaagataa gaaaatttga 300
agctaaatca aggatgtcca atttttgaca ataagagttc cagaaagaaa ggacagagaa 360
aggggaaatg gaactttcca agaacgaaat gacgcaatct ccagattgaa agggataat 420
ggattaagat tcacttccaa acatatcata ccctagaagc ttctggaaag agaaaaaagt 480
aagccaaata tgtaaagtat cagaaatgga aagtcttctc tctagcaaca ctgaaagcta 540
aaagactgtg aagaaaggcc ttcagaattc tgaggaaaaa tgcttttggg aatagaactc 600
tataaactaa agactcatac aggggctcaa aaaatgtact tctcatggtt atgctccagc 660
aaaggaaact gataagaaag aggaagtcac agatggagga aacaggggaa ctactatgga 720
agagacagag agatgtccca ggagaagaga aattcatctg gcctatggaa cagccagttg 780
gtattacagc agaaggatgc agtgctctgg atggaaaagt ttccaggaag aaataaaaaat 840
gagtcagaca agtagcctga aaatgttgaa agattttggc caga 884
```

<210> 107

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 107

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agccctctga ctgacactgg cattggctgt gggggtgaaa gcacaccagg agccatgtgc 180
gtgaaaaggt taatgaattc cagtagctat ggttgagtg ctgatatcat gtgctacctg 240
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gcaaagaatt tcataagtgg gaaccattcc tgctagacta gacttactga tttttgtttc 540
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tggtgtacct gctgtgcccc atttaccatt cattcattca aaaagtgttt actgagtgcc 660
tatatatgtg cccagcgctt tgcttggtta taggtatact ataggtagac ataaagtaga 720
gatggttgct gtattaatgg aacttccagt ctagtatagg gagaaagaca agaaattagt 780
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ggccattgtc tctctaacta gaagcaaatc cccatagtat tggttcttgt aggaggagaa 1140
tgagataccc atatcttttg ttctctcact aaccgtggca ttttactcct aacgttttct 1200
ctttccccaa taaagtatat ctttttaacc cc 1232
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<210> 108

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (443)

<223> a, c, g or t

<220>

<221> unsure

<222> (532)

<223> a, c, g or t

<220>

<221> unsure

<222> (534)

<223> a, c, g or t

<220>

<221> unsure

<222> (544)

<223> a, c, g or t

<400> 108

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gtcctccagc aaaaaaatat gaaaccttat tttcatgaaa gccttttttg tttcacaatt 180
tgccatttgt tattaaagcc cctctactga agagctacaa acccatttcc tcctactatt 240
tcacccctcc tattctgttt cttaaatgtc ttctgtgcct taaatgtctt ctgtgcatcc 300
tatggaagaa gaaccctcct aattcagaat tcacagcatg gagagagaag ttatttgctt 360
atttcattca ttaataacta gagccaccaa cataccacat cctatttaat gttgtcatta 420
tttacaaaat gcaagggaaa atngattata gtgaagtgga ctcatccta gcaacactat 480
atatgccaaa atttcagtga cttgaatggg tacacaaaca gtttggtttg tntncaatgt 540
taangtcatg ttttggtgaa atgttgattt ttaaaaaggc ttttgaagta aactgaagaa 600
ttcactttat gagaaaaaca ttagaaaactt gtttccctacc tacaaaatc aaaattatta 660
aagaggcatg tgaataatta taattgaaag agtatattaca tttattcatg ttttataatt 720
ctgtgcaaaa aattactaag aattgggttca ggttgccatt aatatgaagt gcttagaatt 780
ctgtatatgc caaagaaact gcctctgtga catgtaatat ttttctgttc tattgtaact 840
tgagaatttt actatgatat tttagtttct 870
```

<210> 109

<211> 210

<212> DNA

<213> Homo sapiens

<400> 109

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cagaaattca agcaattctg gtgactacaa atgcattgtt ttggagaata gttgtaaggt 120
ggaaaaagaa ttaggaactc gacagatagt gagttttaac tttaaataac aattcttctt 180
ttgttttgtt ttgtttgaga cggggtctcg 210
```

<210> 110

<211> 861

<212> DNA

<213> Homo sapiens

<400> 110

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atcacaggca tgagccaccg cgcttggcc aagtggtcat tcttaaattc aagaaatggg 60
atgggggagta ttcacacatt ttataacca gaaattcaag caattctggt gactacaaat 120
gcattgtttg gagaatagtt gtaagggtgga aaaagaatta ggaactcgac agatagttag 180
ttttaacgtt taattaacaa ttcttctttt gttatgttgt gtttgagacg gggctctcgt 240
ctgctgcccc ggctggagtg cagtggcagg atcacggttt attgcagcct taacctcctg 300
ggctcaagca gttctccctc ctccagcctc agagtagctg ggactatagg caagtgccac 360
cacgcctgac taatttttaa attttttgta gagatggggg ctcccatctt gccaggtctg 420
gccttgaact cttggggtca agcaagcctc ccacctctgc ctcccaaagt ccaaggatta 480
cagggtgtgag ccattgcccc cagccagtat aacagttagt gtgtgtgtgt gtgtgtgtgt 540
gtgtgtgtgt gtgtgagaca gaggggtctc attctgttgc acaggaagta gtgtagtggg 600
gcgaccatgg ctacagagaa gatactagaa ttctcaggct caagtgatcc tctcacctag 660
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aactagttag tagcagagga tacaggcata gaataacaga catggaatta attaaaaaaaa 720
atgttttagcg tggaagacag ggctctaaac atatgtgacc atggactggg ctagaacatt 780
gtgaacgacg aagataatcc tcgtggactt gggacctcat caaaatggtg ggacatacag 840
gtgtgagcac gggtgcaata a                                     861

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<210> 111
<211> 777
<212> DNA
<213> Homo sapiens

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```

<400> 111
tatacttcca cctatctatt aaaacttatg cctcaattt ataaatgata gtaaggcctt 60
ctctgaattc attcatttat ttttcatcaa caaatgttta ttgagcttct acaaggcact 120
tggttactca agaccagaca gatttgtttt tacaatcata ttagtcattt ccagtctctt 180
agcaaagaat ttgttggttca actgtagca attttctatt gttaatatgc tagaatgtca 240
gctccacgga tggtggagat tgaccatac gtagaattcc aaatggatat ataggaaagc 300
catttaaaat gtcttaatat cttcagaaag gaatttcaca cttctcttta aaattttgat 360
tttgtcattc tcgttacctg cttatagagg ctttttcatt tgtacattta actccataat 420
ccaagaaaaa gcagtttggc aagggggcctt tggttggttt gaaatgttct ctttttttag 480
ctttgtaggc cacagaagac tgtgggtatt caaaagtaaa gtaatttaag aaatatgttt 540
gtttaattta taaggtagaa aattagagat agctctaaga attgcagtaa gccacagaaa 600
tcaaactgca agacttgaat actacctgta ataacttaat ccccaaataa aacgaatgag 660
atgttgaatg tgaacatgct ttgtaaactt gaagggtgtt tgtgaatgct gtacagcata 720
ctagaaggta tgactgtgct agagagaatg gagaattcag ctgccacaaa aatctgg 777

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<210> 112
<211> 1076
<212> DNA
<213> Homo sapiens

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```

<400> 112
tatacttcca cctatctatt aaaacttatg cctcaattt ataaatgata gtaaggcctt 60
ctctgaattc attcatttat ttttcatcaa caaatgttta ttgagcttct acaaggcact 120
tggttactca agaccagaca gatttgtttt tacaatcata ttagtcattt ccagtctctt 180
agcaaagaat ttgttggttca actgtagca attttctatt gttaatatgc tagaatgtca 240
gctccacgga tggtggagat tgaccatac gtagaattcc aaatggatat ataggaaagc 300
catttaaaat gtcttaatat cttcagaaag gaatttcaca cttctcttta aaattttgat 360
tttgtcattc tcgttacctg cttatagagg ctttttcatt tgtacattta actcataatc 420
caagaaaaag cagtttggca agggggcctt gtttggtttg aaatgttctc ttttttttag 480
tttgtaggcc acagaagact gtgggtattc aaaagtaaa taatttaaga aatatgtttg 540
tttaatttat aaggtagaaa attagagata gctctaagaa ttgcagtaag ccacagaaat 600
caaactgcaa gacttgaata ctacctgtaa taacttaatc cccaaataaa acgaatgaga 660
tggtgaatgt gaacatgctt tgtaaaactt aagggtgttct gtgaatgctg tacagcatac 720
tagaaggatg gactgtgcta gagagaatgg agaattcagc tgccacaaaa atctgggtctc 780
ttccgctctc agactctgtt gaggaaagaa gatatgcaga aataaccacg tgataaatgc 840
aaaaaagaag atatttttgg gtaatttgag gaaggaaggg gtccccttta tccctggcag 900

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tccagagact cttgagaaaa agcatctaag caagtccttg aatgatgtgg catttcaata 960
aaagagatgg agaggaggca tttgagatag gaggactagt aggagatgga gaaacttgga 1020
gacatatcca gggaaaagca tcaagtccaa ctgagttaga actggagcag agtcgg 1076

<210> 113
<211> 190
<212> DNA
<213> Homo sapiens

<400> 113
cgtacgtaag ctccgaattc ggctcgagaa tattttcaag tcatattata atgatggggt 60
ttccccagat actttggatt gaaataaacg ggttagaatg gagaacagat gacaggagtc 120
ttctctgaaa tttctgagag gccacacaat cttaggttga ataaagaagg aataagaata 180
ggaaatacgg 190

<210> 114
<211> 622
<212> DNA
<213> Homo sapiens

<400> 114
tgggggtgat tgagaaagtg ggcccaagat aaggaagtcc tgtggggccct cgcagcccac 60
ccgccactat cagcgagcat gtgaggatat tggaccttca cccaagattt catttagggg 120
tatactaggg tttttagtgc taacactatt tgagagaaca ctgccccaac agatctgcat 180
ttacctatta ggcataaaca cttggaatac caaatgtacc agatccgctc atagtagtaa 240
gtcagaagtc agcttccttc cctgtttgtg ttaggatacc accatgcgta atcatcctga 300
aacaaagggtg cgggggagga tttggaaaac ttgttcttaa ataagctgtt ttctaagttg 360
agctccccct ctctagaaag tttccttagg aacattatgc atattggaga caaagataaa 420
acccttttta ttaaagtaaa aaaaaatgtt gatagttgtt ggtgatgtcc aaataatatt 480
ttcaagtcat attataatga tgggggttcc ccagtagctt tggattgaaa taaacggggt 540
agaatggaga acagatgaca ggagtcctct ctgaaatttc tgagaggcca cacaatctta 600
ggttgaataa agaaggaata ag 622

<210> 115
<211> 801
<212> DNA
<213> Homo sapiens

<400> 115
cggtaacagg aaggacttac cccaccattc ttgggatctg tgtgagctgt ggaaaggcct 60
cttgggagat tataggtaca gaataccggt ggctttcgcg ggactttgaa aactaatgta 120
tgagcatttc tgctgccaga ggatagtgtg gtctgtgact cagtggctgg tcacacagag 180
aaggttgaca cacagtgggt gaaagggttg aggtgcgcgt gatgggggtg ctgtgtgcaa 240
aaggctgcca ctgagctggt cagggactcg tttgaatgat gagtgatggg tgagaatatg 300
tgtcctctgg atggagttgg ggatgaacag ggaaagttgt gtgagacttt atagaagggtg 360

cagtggctag	agcaggcata	ttcatgttgc	tgtcagtaac	agaaccgaag	gcaaggctctg	420
agctggagca	cggtagggac	ccaaagtggg	agagactgtg	tctgcccaca	gggagtttat	480
ggtcaggagg	gatgggcaag	tacagggata	agtaacacaa	gacagactgt	gtttaaacca	540
cccagtgaag	ttacaaccag	aggtgggtggg	aatgcagagg	aagaggggag	cagagagcac	600
ctgagatggg	cttgagttca	gaaggggaaa	aatgaagggc	cctccagggt	gaacagcatg	660
agtgttcaga	gacagcatgt	atatggttta	tggagaacgg	tttgcttggg	gagtaggtag	720
ctctgggaaa	caacacttgg	aaaaattgga	ttgagtttagc	atatgtaagg	cttaatgccc	780
tgctaagaaa	actatactta	g				801

<210> 116

<211> 1657

<212> DNA

<213> Homo sapiens

<400> 116

caggtattac	tcgactacta	ccatgaacga	tacagtaact	tagccaggcc	tggtggtgta	60
aacctgtagt	tccagctatt	taggaggctg	aggtgggaga	atctcctgag	ccaagagggt	120
caaggtagga	gtggctgtaa	ttgtgccact	gcactcctgc	ctgggtgaca	gagttagacc	180
ttgtctcaaa	aaaagaaaga	aaatttttaa	atttcttgaa	acaaatgaaa	atggaaacac	240
aacatactaa	aacctacagg	atacagcaaa	aacagtacta	tgaagaaagt	ttatagcaaa	300
agtgcctaca	tcaaaaaagt	agaaaaactt	caaataaaca	acctaaaaat	gaatcttaaa	360
gaattagaaa	agcaaaagca	aaccaaacc	aaaattagta	gaagaaaaag	atcacagcag	420
aaataaatca	aattgaaaca	gaaaaaacac	aaaagatgaa	aggaaaaaaa	aactgggtgt	480
ttggaaaaga	taaacaaaat	ggacaaacct	ttagccagac	taagaaaaaa	agagagaagg	540
ctcaaataaa	taagatcaga	gatgagacat	tacaagcaat	accacagaaa	ttcaaaagat	600
cattagaaac	tactggccag	gcatgggtggc	taacacctgt	aatcccagcc	ctaagtatag	660
ttttcttagc	agggcattaa	gccttacata	tgctaactca	atccaatttt	tccaagtgtt	720
gtttcccgag	gctacctact	caccaggcaa	accgttctcc	ataaaccata	tacatgctgt	780
ctctgaacac	tcagtctgtt	caacctggag	ggcccttcat	ttttccctt	ctgaactcaa	840
gcccatctca	ggtgctctct	gctccctct	tcctctgcat	tcccaccacc	tctggttgta	900
acttcaactg	gtggttttaa	cacagtctgt	cttgtgttac	ttatccctgt	acttgcccat	960
ccctcctgac	cataaaactc	ctgtgggcag	acacagtctc	tcccactttg	ggtccccacc	1020
gtgctccagc	tcagaccttg	ccttcgggtc	tggtactgac	agcaacatga	atatgcctgc	1080
tctagccact	gcaccttcta	taaagtctca	cacaactttc	cctgttcatc	cccaactcca	1140
tccagaggac	acatattctc	acccatcact	catcattcaa	acgagtcctt	gaccagctga	1200
gtggcagcct	tttgacacac	gccaccccat	cacgcgcacc	tccaaccttt	caccactgt	1260
gtgtcaacct	tctctgtgtg	accagccact	gagtcacgaa	ccacactatc	ctctggcagc	1320
agaaatgctc	atacattagt	tttcaaagtc	ccgcgaaagc	caccgggtatt	ctgtacctat	1380
aatctcccaa	gaggcctttc	cacagctcac	acagatccca	agaatgggtg	ggtaagtcct	1440
tcctgttacc	gatgatggct	ctgaatttcc	aacacgccat	aggtctccat	gcccctttat	1500
gcttcctggg	tctcaaccac	ttcaaaaccc	ctcaaacagt	acctatccaa	agcaaatcgc	1560
tgggcaggcc	cccaaacaga	acctgtgaga	cacagttaag	gataggaaaa	tgagggcgtg	1620
aagccatgac	tgctgaccct	tatagaagat	gtgcctt			1657

<210> 117

<211> 1041

<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (759)
<223> a, c, g or t

<400> 117
aattgctaag aaagcatttt gactggagggc aaagaaccaa aagctattca attaatctta 60
ccagttctgt cttaagggtca cagaaagatc atgatttggt atatatccat atatttttaa 120
ttaaagagga gggttattac tcaagaaatt tgtacaaaat ataaatatac tttttaagta 180
ttaagaaaat atctatactc tacaaataat gttaccatgt agcatatgaa ggttatggta 240
ttctaactaa agaagcttaa gattttttca tgggatattg ttctgccaga aaatatctat 300
gtgcagtgtg gatatatgat gtagaacaaa aaaattgtat atactccaaa gtattattta 360
atgcagaaaa ctgaaaatct tcaaaagtta caaaaaaact tcaccatgtc caatgcagct 420
ggtaggaaaa atattttctgc aagaccagaa ataaactaga agaaggattt acaggagtaa 480
taaaactgag aaaccgctac tcccttcggg tcttgattga ttgcaaggac ctcaaacttg 540
tgtagattgc ccaatttacc ctcttgaaat aaacaaagaa aaagtactga ctgaagcaga 600
tcataaaaata taaaacacag aagaaaataa gctaccactc taaagaatga gaaaaaaatt 660
aattgtatac atttttagtta ttttaaatat acttaaaata ttttaagtaa cgcaatgggt 720
aaaatagaaa attttaaaaa atgatttgaa aagaccaana aattgtaaac taaacaagca 780
tatttgaggaa aggagccaaa gagaaattga aaaaaaaaaat aagtttaata cacaatatatt 840
gggttaaaata ttaagttaga ctacatgat aaaaagatta gttaaactgca atattgagca 900
gaatgaatat caccaaataa agacaaaata taaaaatata aatataatta taggaagaat 960
atgagaagga aaatacattt aaattatcca atagaatata taaaactata gaatatgtaa 1020
atagaatgta taaacatttc c 1041

<210> 118
<211> 688
<212> DNA
<213> Homo sapiens

<400> 118
ttatttccta agtactcatt ttaaaccctc ctctgtttta atggaagggtg ctgccccttt 60
aacatatgtc ctttaaagta agagtacctc cttcccagat acgtgcagag cccagcccta 120
cccagttctg aagccactct gacacagacc aatgtttttt cagggttctc aggcccttat 180
ctcacagggtc tgcaacctgt tctgttgcta caggcaccat atctagtgtc gtagtagaca 240
ctaggagaca aaggcgaaaa ggcttttcatt cctgacacag cctgcatatt tgctctaatt 300
tgaagtgggtg tgaacacact gccaaaggaag cccagaggag ggaaggaata aagctgcctt 360
gaaggacaaa gaggaagtgt ttccagagga ggcaacgatt gaatgggacg aaagcttcac 420
aggacttcac tgaaccagag gatggagaag gacactctta ggataggaaa agttgaaaaa 480
tcccaaagag gcatgttaca ctatgaagcg tttggacaat gggctacaca aggttgaaat 540
gggaggttgg aataaactgt tgaagagctt ttagcagcca tggtaaagtg tctggatttt 600
atctcaatgc agcaagggca gggggtgaag aatcacataa taaaataggc atctgctcct 660
gaaataacca tacagaattt aattattt 688

<210> 119
 <211> 762
 <212> DNA
 <213> Homo sapiens

<400> 119
 cagaagccca gttatacaaa ttaggctgtc tgatggagac agggatagct ctggctatatt 60
 atttaaaaaa aaaattatatt cctaagtact cattttaaac cctcctctgt tttaatggaa 120
 ggtgctgccc cttaacata tgccttttaa agtaagagta cctccttccc agatacgtgc 180
 agagcccagc cctaccagc tctgaagcca ctctgacaca gaccaatgtt ttttcagggt 240
 tctcaggcct ttatctcaca ggtctgcaac ctgttctgtt gctacaggca ccatatctag 300
 tgctgtagta gacactagga gacaaaggcg aaaaggcttt cattcctgac acagcctgca 360
 tatttgctct aatttgaagt ggtgtgaaca cactgccaaag gaagcccaga ggagggaagg 420
 aataaagctg ccttgaagga caaagaggaa gtgtttccag aggaggcaac gattgaatgg 480
 gacgaaagct tcacaggact tcactgaacc agaggatgga gaaggacact cttaggatag 540
 gaaaagtga aaaatcccaa agaggcatgt tacactatga agcgtttgga caatgggcta 600
 cacaagggtg aaatgggagg ttggaataaa ctgttgaaga gcttttagca gccatggtaa 660
 agtgtctgga ttttatctca atgcagcaag ggcaggggggt gaagaatcac ataataaaat 720
 aggcactctgc tcctgaaata accatacaga atttaattat tt 762

<210> 120
 <211> 576
 <212> DNA
 <213> Homo sapiens

<400> 120
 ggtgtaagcc accgcacccc gccagcctg gcagatttta tttaatcatt tgtagcttca 60
 ttttcctcgt ctgtcaaaca gggatactgt aatacaacct cagtgtgtca ttgggcagtt 120
 taaatgaatg tacattcctg aggcactcaga actttgttca ctgttatata cccaatgcct 180
 agaagaggac ctgcacatag cagggtgctca gtaaagtgtt gttgaatgaa tgattaagtg 240
 catgtaaagc attaagcata gcgcctggca gtaagtgtc aatattatga cttcttatat 300
 taacacgttt tacatataaa gaaatggagg caagaaagca tttcctttgg ggttttagagc 360
 gcttaagttg ttctctgtt atcatgcctg aattcccccg cccctcagtt acctggggaa 420
 gagtaaaggc aagaattctt accagcatta gtcatacatc ctctgatag gaatctgcga 480
 aaacacacac ttctgctttt agttctatct ttagaattct ctctgggct gttgctcctt 540
 tgttccttca ttgtaataaa aatggattct gaaagc 576

<210> 121
 <211> 1055
 <212> DNA
 <213> Homo sapiens

<400> 121
 ctcagcctcc agagtagctg ggactacggg cgccccacca ccacgcccgg ctaatttttg 60
 tatttttagt acagacgggg tttcattgtg ttagccggga tgggtcttgat ctctgactt 120

gtgatccgcc	tgcctcggcc	tcccaaagtg	cttggattac	aggtgtaagc	caccgcaccc	180
cgccagacct	ggcagatctt	atttaaatcat	ttgtagcttc	attttcctcg	tctgtcaaac	240
agggatactg	taatacaacc	tcagtgtgtc	attgggcagt	ttaaatgaat	gtacattcct	300
gaggcatcag	aactttgttc	actgttatat	acccaatgcc	tagaagagga	cctgcacata	360
gcaggtgctc	agtaaagtgt	tgttgaatga	atgattaagt	gcatgtaaag	cattaagcat	420
agcgctggc	agtaagtgt	caatattatg	acttcttata	ttaacacgtt	ttacatataa	480
agaaatggag	gcaagaaagc	atttcctttg	gggttttagag	cgcttaagtt	gttcctctgt	540
tatcatgcct	gaattccccc	gcccctcagt	tacctgggga	agagtaaagg	caagaattct	600
taccagcatt	agtcatacat	cctcctgata	ggaatctgcg	aaaacacaca	cttctgcttt	660
tagttctatt	cttagaatct	tctcctgggc	tgttgctcct	ttgttccttc	attgtaataa	720
aaatggattc	tgaaagcaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	gcacaagaag	780
gaagaacaaa	aaaatagcac	aataaaaagac	aacgaagaca	tagggaagcg	aagaaacaaa	840
gaaagagaca	gccagagacg	aagcaagaag	aaacagacag	cagcagaacg	gaaagacgaa	900
caacgaactg	cgacaggata	gcaaccgaaa	ccacatagac	atagaagcca	gaacagaacg	960
caagggaaga	gaaaaaaaaca	ggacgaggaa	aggaaataga	caccacaata	gagaggcaat	1020
aaccggccac	gaaacaacaa	gagacgagac	cacaa			1055

<210> 122
 <211> 556
 <212> DNA
 <213> Homo sapiens

<400> 122	
accgattttc	ctacatatat gccaaactttc atggctcttt ccttaccaca tggaaaactt 60
ttgaagtagt	gtgatgttga agaagaatct gtgatatgtt caccacatat gctttagaga 120
tattctacat	ctaaatatcg ctgggagttg gagttgggag agatttgctc tagaagcaac 180
atcattgggtg	gtgacacctt gtataatgaa ttagaaagga ctatagaaaa gtagagtcac 240
ctagaaatgg	ttttaactgg gttttaccag ttagaactct gtgatttgga atatgttatt 300
taacttctct	gggcctccgt gttctcaaat ataaaattgc tgtgatgatc cctacgttat 360
aggattgttg	tgaggctttg tgaaggaggg aacacatgta aagagtttag cacaaggctg 420
gacacatagt	caggctcaac aaatggcgat ggtagttgtt tcctaagcaa ttctatacta 480
cagagaacat	tctcataaaa ggctgttcac aggcgagctt aggccttcag tccttcaaat 540
agacactaac	acgagc 556

<210> 123
 <211> 749
 <212> DNA
 <213> Homo sapiens

<400> 123	
acctgttatt	acaggcatga gccaccgcgc ccagccocat ttcattgtctt ttcagccaca 60
atattagatc	cattaatctg ttttaaggac acaccgattt tcctacatat atgccaaactt 120
tcattggctct	ttccttacca catggaaaac ttttgaagta gtgtgatgtt gaagaagaat 180
ttgtgatatg	ttcaccacat atgctttaga gatattctac atctaaatat cgctgggagt 240
tagagttggg	agagatttgc tctagaagca acatcattgg tggtagacacc ttgtataatg 300
aattagaaag	gactatagaa aagtagagtc acctagaaat gggttttaact gggttttacc 360

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agttagaact ctgtgatttg gaatatgtta ttttaacttct ctgggcctcc gtgttctcaa 420
atataaaaatt gctgtgatga tccctacgtt ataggattgt tgtgaggctt tgtgaaggag 480
ggaacacatg taaagagttt agcacaaggc tggacacata gtcaggctca acaaattggcg 540
atggtagttg tttcctaagc aattctatac tacagagaac attctcataa aaggctgttc 600
acaggcgagc ttaggccttc agtccttcaa atagacacta acacgagcac ctgctttgca 660
tgtagcattg tgctagggtgc aagagaatca gacatgtaaa acaaaatccc tgctctaattg 720
ttcatagtga gtagaaaata aaaacaagt 749

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<210> 124
<211> 122
<212> DNA
<213> Homo sapiens

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```

<400> 124
gtgaaaacct ttctttcctt ctctgcttgt gatagagagt gaatgaaggc agtcgggggcc 60
gggtgggtcg ggggatatcc atgtcccagt gttagtgttg ttctgacaaa actcatgctt 120
tc 122

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```

<210> 125
<211> 583
<212> DNA
<213> Homo sapiens

```

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<220>
<221> unsure
<222> (488)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (528)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (553)
<223> a, c, g or t

```

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<400> 125
agaaatttag aatttaaagt ttgtttaggt catcttttgg tagatccaat caagtttaaa 60
attctaccat gtcttgata tgagcatatg actcattgat ggcgttcagt aaaatctttc 120
tgtgtagttg gtttaaaatt tgacttaaaa cagggatata atatttacct tccctagagt 180
aacagattta tgttatgtaa taaccttgac atgtttacaa aatcatgttt aatgggctct 240
ccagagctcc agtgaatacc acaatttggt ctgttttcaa cttttttaag gaatctggga 300
aagctgtagg aaatgaaata tgtgtcctaa actttttgta tcaggcttaa ctactgcttt 360
cttgaagttt agcaaaagga taaaggactg tatgttcttc cattaactgt agtcaaaact 420

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gaatttaagg atttttgata gctgtttaga attactgttt gaatctctac tacaaagaat 480
attaagantt ttagcattga gagtcctaata ataccactt aacaatcntt agacttactt 540
tgggaggggcc aangcctaag ggtcacatgg tcaggagtcc taa 583

```

```

<210> 126
<211> 91
<212> DNA
<213> Homo sapiens

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<400> 126
accgcgcccc gttgtgcatt tctgggtttct aagaatcaaa ccacttggct gtttttagga 60
gttacttccc atgttataaa gctgaggaag c 91

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```

<210> 127
<211> 869
<212> DNA
<213> Homo sapiens

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```

<220>
<221> unsure
<222> (400)..(634)
<223> a, c, g or t

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<400> 127
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cattgttagc tagttagata ggtatattgt aggggtattct ctttaacata aaaatggatg 120
agtgtttaat aatttaaaaa taatagaagt tgaccagtta gttgtatctt ctgtgggattt 180
gagaatcatc aggacataaa ttataattga aagcacggga atggaggatg acctaggaaa 240
tgtaaagaat gagaaggaaa gattgttgaa gatggaaccc tggggaatgc tggctttaag 300
aagggggccac cgcgccagc tgtgcatttc tggtttctaa gaatcaaacc acttggctgt 360
ttttaggagt tacttcccat gttataaagc tgaggaagcn nnnnnnnnnnnn nnnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncaagtg ctggattgca ggcattgagc 660
cctagccagg aagctatctt ttcttgagtt atgaaacttt gcaacagttg ttcaaattgg 720
tgtttgtcct tcctatagct ttcataatctt caaattaatt ctgtatggct atataattta 780
tgttttaaaa ggcattctct tgactttgga aatatggaag tctctccttt aacctattct 840
tgttcccatc cccagtctca tttgaaatc 869

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<210> 128
<211> 585
<212> DNA
<213> Homo sapiens

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<220>
 <221> unsure
 <222> (40)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (79)..(131)
 <223> a, c, g or t

<400> 128
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 gataagatca ggttgaagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn naattttctta gagactaaca tgattaaatc aaatcagact gatttttagaa 180
 acaaacacaaa aatgctaaat ttattacttg aataactaaaa ctgatttttta cataaatatt 240
 atactgattt caaaataaaa atgggtatatac ttaattaata tttacaatt aagttgttga 300
 atacatattt caatattgaa agttttttat acattatttt ctttatgagt tttatatgcc 360
 ctcttacatg aggggatcaa aaaacattca gatggataag tgagaggatg caaaaaaatg 420
 taggcataaa attacaccat gtgtatggaa aacaatgaat attttattta ccattatttt 480
 ctaatataca tccatactca taaattcatt atactttcgt tgatgagaca tcaattttac 540
 attcagctaa actctcattg taactgtgta ctttctcaat tataa 585

<210> 129
 <211> 118
 <212> DNA
 <213> Homo sapiens

<400> 129
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 ggtaaaaaatg gatagataag atagtattct aaattcaaatt tcgtggcctag gcacagtg 118

<210> 130
 <211> 1436
 <212> DNA
 <213> Homo sapiens

<400> 130
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 tgtaactttt gaagaaagta tgcttggtgc ttaaaattgt atatgatttt aggtaagaaa 120
 ctttgataat attggcataa tttagattta ttttctttct tttttttgag acagtctcac 180
 tcagtcgccc aggctgaagt gcagtgcac agtctcagct cactgcaacg tctgcctccc 240
 agattgaagt gactctcgtg cctctgccac agagtggctg ggattacagg catgcaccac 300
 cacacaccgc taattttttg tatttttggg ggagacggag tttcaccatg ttggccaggc 360
 tgcgaactcc tgagctcaag tgatcctccc acctcagctt cccaaagtgc tagcattaca 420
 ggcatgagcc accacacctc accagatttt taaaaaatat ataactgcat ctctcttgat 480
 tctggggctt ggtaaaaaatg gatagataag atagtattct aaattcaaatt tcgtggcctag 540

gcacagtggc	ccacacctgt	aatcccagca	ctttgggatt	ccaagacaga	agactcactt	600
gagtacagta	tgagaccagc	ctgggcaaca	tagatcttgc	ctctacaaaa	aaaaaaaaaa	660
atagccagggt	gtggcacatg	cctgtagtct	cagctgcttg	gaaggctgaa	atgagaggat	720
ctcttgagcc	caggaggtct	aggccagagt	gagctgtgat	cgtgccattg	gcactccaga	780
ctgagtgaca	gagtgagact	gtgtctaaaa	aaaaagtttg	aattaaaaaa	aaaaaaaaaa	840
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tagcgggagc	atgctgtgat	aaaccccg	taactgggag	aggcttgagg	caggagaatc	1080
cctttggacc	ccgggaagg	ccaagggtt	gacgtgacgc	tgagattgtg	ccactgcata	1140
cagctggggc	acacattgag	cacaatctct	ccatctctaa	gataccccc	agacccaaac	1200
acaaactcca	atthtgcattg	taagatcggg	cacctaggat	tcagtctctg	aaacgtcttt	1260
gtcacaatta	agggcaaata	cttataacgc	caaagtgtacc	tcggcgtctg	cacactttta	1320
ccacttgtct	ttggccaaag	ggtagtcttt	accaccgggg	aggctcgtcag	ccaccaatgt	1380
gctcttaact	tagcaaccat	gacctcgccg	gtctagaaaa	cgcattgttt	cccacc	1436

<210> 131

<211> 178

<212> DNA

<213> Homo sapiens

<400> 131

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tcgagagaat	aagtgttccc	tggatagata	gatattagtt	atagatatta	taagttataa	120
ttatagtata	agttatatct	tcagtcataa	atactataag	attcagctga	gcaagggtg	178

<210> 132

<211> 775

<212> DNA

<213> Homo sapiens

<400> 132

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gcatgttcca	ccacacctcg	ctaattttta	acattttttg	tcactatgtt	cctcagcctg	120
gtctcaaaact	cttggcctca	accagtcctc	cctccttaac	ctcccaaagt	gttagaatta	180
tgggcatgag	ccaccgtgcc	tggcctacat	ttgatatttg	atactgtaaa	aagctagcta	240
tcacaactgt	ccatactagt	tctcttcgag	agaataagtg	ttccctggat	agatagatat	300
tagttataga	tattataagt	tataattata	gtataagtta	tatcttcagt	cataaatact	360
ataagattca	gctgagcaag	gtggcatgca	tctgtagtcc	cagctagttg	agatcaaggc	420
taaggcagga	gtcttacttg	gacttaggag	tttgagtcta	gcctcatagt	gataccttgt	480
ctactgaaaa	aaaaaaaaaga	ttgaaccatt	gttccactgt	ttatgatttt	ttttgtgctt	540
aattcttatt	tatgaatttt	tgttctagtt	ctgtttctag	agagaataaa	gccaggtga	600
ataactttgt	tttctttctg	gttttagaat	tattagtaac	aaatccgtgt	tcttaatggc	660
agtagcaaac	ctgtcttctg	tagaattttt	aaagagatgt	ttctgtcatt	agtaatacag	720
aagaagcctt	gatcattttc	agaataaaga	atthttacgac	aggagagagg	ggctc	775

<210> 133
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (187)
<223> a, c, g or t

<220>
<221> unsure
<222> (190)..(219)
<223> a, c, g or t

<220>
<221> unsure
<222> (224)
<223> a, c, g or t

<220>
<221> unsure
<222> (228)
<223> a, c, g or t

<400> 133
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ggagaacagg acaagaatac ctgacatgac accagctata ttatatatgt gtgtgtatgt 180
atatatnccn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna tatntatntg actatctggg 240
tagccatata tgaaccaagg cctgagggaa gagctgatac taagaggagg tttttaaaga 300
tgatttagag aatgtttata gaacagtctg tatgagagat ttgagggttt tgtttggttg 360
gttttgtctt tggcagtagc ctgaaaaaac acataaagag ttaagaatat gttttatagg 420
tttgggggaa gcatcctgta gagagagtga atttgaacag aaaaaagaga gagggaaagc 480
tggcaaaagc aagtctgact cctgatgcaa aatgcatgag aagactggat aaaat 535

<210> 134
<211> 579
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (184)
<223> a, c, g or t

<220>
 <221> unsure
 <222> (187)..(216)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (221)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (225)
 <223> a, c, g or t

<400> 134
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 gaacaggaca agaataacctg acatgacacc agctatatta tatatgtgtg tgtatgtata 180
 tatnccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnatat ntatntgact atctgggttag 240
 ccatatatga accaaggcct gaggggaagag ctgatactaa gaggaggttt ttaaagatga 300
 ttttagagaat gtttatagaa cagtctgtat gagagatttg aggtttttgt ttggttggtt 360
 ttgtcttttg cagtagcctg aaaaaacaca taaagagtta agaatatgtt ttatagggtt 420
 gggggaagca tctgttagag agagtgaatt tgaacagaaa aaagagagag ggaaagctgg 480
 caaaagcaag tctgactcct gatgcaaat gcatgagaag actggataaa atttccactt 540
 gcatgtttat agcagcatta atcctaaaag ccagggcgg 579

<210> 135
 <211> 503
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (421)
 <223> a, c, g or t

<400> 135
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 attaaagagg gagcttctta taaccataaa ttatacagct cagcatttcc cattttttct 120
 tttcttcctt gtgccaatgc ttgggaggaa accagagtat gaacaagaac tgttttacct 180
 tctagtggag aaaggacaat ttgcagtgga aagaatgtgt gtgtcgtccg ttgatctgt 240
 aaaatgtgaa ctgcttctgt agtctgagg actgaggaaa agagatgttg agtaaaagt 300
 actgataatt ccagctatct aatcttatct cactttttcc tctcttttat ctctgcccaa 360
 atacctctac ttatgcacct actttgaatt tgcaacagtg aaggctgggg gataggagac 420
 ngccagtagt gctgagtagt gtcaagtaca gttaacagtg aaatgcggat tttcactcat 480
 caaatcagca atcttaaatt ata 503

<210> 136
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 136
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 atgatggggc agtgggtttcc agacatggga gccagttcgt ctgtgaggat tttctccagg 120
 catagtcaag tgtggaaaat gaggacaatg tggatgaactt ttcataaacc aatggattca 180
 ggttgaagac ctggccattt ttttctgaga ttatatctct ccaatcttta tccttagcca 240
 cagtgtcttc tttaatgaaa tgggtgtgat tatggatgat agattttttt ttctgttggc 300
 caaattagaa gttggaaacc ctagggtgtt attccttccc tccccaaat ttcaaagctt 360
 taccagtttg agaaatccca gaatctcagt cctcaagaaa ttgaaacctc taacaaggat 420
 acgtggatgt gcaca 435

<210> 137
 <211> 596
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (569)
 <223> a, c, g or t

<400> 137
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 atgatggggc agtgggtttcc agacatggga gccagttcgt ctgtgaggat tttctccagg 120
 catagtcaag tgtggaaaat gaggacaatg tggatgaactt ttcataaacc aatggattca 180
 ggttgaagac ctggccattt ttttctgaga ttatatctct ccaatcttta tccttagcca 240
 cagtgtcttc tttaatgaaa tgggtgtgat tatggatgat agattttttt ttctgttggc 300
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 acgtggatgt gcacatacga tgctatgtct caaggatgac atttagtgcc ctccaagaag 480
 tagaagtgat gccggggaac caccaaggaa gaaggaccag catctctctg gggagcctgc 540
 agacggtctg tgcatagaat gctttcaang gatggacatg ggactgaaag gagtta 596

<210> 138
 <211> 467
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure

<222> (56)..(187)

<223> a, c, g or t

<400> 138

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nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180
nnnnnnnncta aggagtattc tagtgaagaa aatgggtgaa ctttgtttaa actgggtgat 240
ggcaaaacttc actggtgaaa tacttattcc catgacctat tatctttgta ggtgggtgaa 300
attgcattgg gaactgctgc tataaccaaa agagaatttc agtcaccatg tctgggtggt 360
agctatgatg gaatggcagc atcatggtct cagttatgag tgaaaatctt tgttgtagct 420
aagtagtggt gcctcctgag ttttattaaa tgccggttca ctatctt 467
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<210> 139

<211> 126

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (5)

<223> a, c, g or t

<220>

<221> unsure

<222> (13)

<223> a, c, g or t

<400> 139

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ataagactct cgtagtatct ctaaaagatt cagtagttat ccactggggt gatcttcatg 120
ctgtgt 126
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<210> 140

<211> 535

<212> DNA

<213> Homo sapiens

<400> 140

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ggagcacctg aagacttgga ataggtagct tcaccaaaga ataggagaag agcggagaac 120
ccgggccccac aaggcatcct ttgaaggatg aagacaacta ggaaggctcg atttctgggt 180
accatgtgaa cagagaatag aggggagtca ggaataactc agctgtgtca aaagcagccc 240
ataaatgtca tcgaggataa gcactcgaag atcggtgtcg ggcttttata gccacaatg 300
cagaagggtca ttgcctgctt ggctaagacc atttctgtga aaagaagagg attttaaact 360
ggaatgggat gagtagagca gccttttctg catttcttcc tttgctggct caagagaagc 420
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agaaacaaac cctattccca gaactatgct gacaacattg atgatggcag cacacaaatt 480
aggaggtaaa caaaacgccca tggttaatttc aggctccatt agaaacacag tcagg 535

<210> 141
<211> 960
<212> DNA
<213> Homo sapiens

<400> 141
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gcgattacag gcgtgagcca ctggataagt cattttttaa aagaggttct tatgcttttc 180
aaatgtatct actgattgaa aaatgcttct ggagaagatg aatattggta atgaaataat 240
agaagctgac taatggacaa aacagtggga tcaaaagact aggaagactt aaagaccaa 300
gcaaaaccca tctctgtttc taaaaattgt tgtgacattt caaaacactt tctcacagaa 360
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caatgcagaa ggtcattgcc tgcttggtta agaccatttc tgtgaaaaga agaggatttt 780
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gaagcagaaa caaacctat tcccagaact atgctgacaa cattgatgat ggcagcacac 900
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<210> 142
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (554)
<223> a, c, g or t

<400> 142
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tctgtcaagc tagaagaaaa atgtcactaa aataattcaa gacaattttt gtactttcca 180
acgatgttca ggtaacagct gaaaatattc tcacttattt gacttgagga agaaaattcg 240
aacgaggaaa atcatcaagg atttgctaaa gtccttcttg taaaatcttc cttaaggaag 300
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actgacttgg tttgttttct agaatatatg taaaagtaag agtgtgtata tataacccat 420
tatgtacata acaagaacag ttccttccaa tattcaaat tcatgactct agatcaactac 480
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<210> 143

<211> 4906

<212> DNA

<213> Homo sapiens

<400> 143

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cagaaagtca acaaggatac ccaggaattg aactcagctc tgcaccaagc agacctata 240
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cacacctatt ccaaaattga ccacatagtt ggaagtaaag ctctcctcag caaatgtaaa 360
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attaagaatc tcactcaaag ctgctcaact acatggaaac tgaacaacct gctcctgaat 480
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aacaaagaca ccacatacca gaatctctgg gacgcattca aagcagtgtg tagagggaaa 600
tttatagcac taaatgccta caagagaaaag caggaaagat ccaaaattga caccctaaca 660
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tggaagaaca ttccatgctc atgggtagga agaatacata tcgtgaaaat ggccatactg 2160
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gaattgaaaa aaactacttt aaagttcata tggaacaaaa aaagagcccg cattgccaag 2280
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aaacctgaga	aaaacaagca	atggggaaag	gattccctat	ttaataaatg	gtgctgggaa	2520
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catgaaattt	gaatattgga	aggaaactgt	cttgttatgt	acataatggg	ttatatatac	3960
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cacagaaaga	actatgagga	ccgggccaga	gagttgggga	caaatagtgt	tcagcccagt	4500
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gttcctggcc	tcatttccgt	cctgaccagg	tgttctataa	acacagtcca	ttaaagaaaa	4620
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aaggtaccaa	atagacatgg	aaactaagta	aaagtgggtt	gtttgctatt	caagtgtagc	4800
ttccagccaa	gttgctgact	ctcagccact	ctggtataga	cattctggag	ctgccacact	4860
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<210> 144

<211> 320

<212> DNA

<213> Homo sapiens

<400> 144

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aaaagactga ctgaacttaa agaattccaa catctgggag tctggtaggc caaatcagat 60
ctgcagataa gactcaggag tggcttccag agaggtggca ggaatgtgta ctatcatagt 120
aacctgtagt agtttgacta gtagtagctc tgacttgagc aattgggtgg actgaaatgg 180
gaaagattgg aggaggatta aactttgtaa agatattgaa ccagggttca gatatactgt 240
ctggagctta aaagtcttaa gtagtataat aaattacaca gggaaagaat ctagagtagg 300
agccagggtgc agtggcacat                                     320
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<210> 145

<211> 458

<212> DNA

<213> Homo sapiens

<400> 145

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gatctagagg atccctaaag gcgagtcggg tacagtggca taataatagc ttactgcagc 60
ctccaactcc tgtgctcaag ggatcctccc acctcagctt cccaagtaat agggaccata 120
ggcatgtgcc actgcacctg gctcctactc tagattcttt cctgtgtgaa tttattatac 180
tacttaagac ttttaagctc cagacagtat atctgaaacc tggttcaata tctttacaaa 240
gtttaatcct cctccaatct ttcccatttc agtaccacca attgctcaag tcagagctac 300
tactagtcaa actactacag gttactatga tagtacacat tcctgccacc tctctggaag 360
ccactcctga gtcttatctg cagatctgat ttggcctacc agactcccag atgttggaat 420
tctttaagtt cagtcagtct ttgcttctct aaaatctt                                     458
```

<210> 146

<211> 115

<212> DNA

<213> Homo sapiens

<400> 146

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ggaactgggtg actgtataag aagaggaaaa aagacctgtg caagcatggt agcatgctca 60
ttctcctccc catgtgatac cccatgttgc cttggaactc tacagaaagt ccctc      115
```

<210> 147

<211> 69

<212> DNA

<213> Homo sapiens

<400> 147

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gttctatatg aaatagattt aatagatttg gatatttggg tgattttctc tttactatgt 60
tcattagtg                                     69
```

<210> 148

<211> 431
<212> DNA
<213> Homo sapiens

<400> 148
tagttctaata gaaatagaac tatgtcatta gttctatatg aaatagattt aatagatttg 60
gatattttggg tgatttttctc tttactatgt tcattagtga attacattaa ttgatttttct 120
aatgttgaat ccaacgtgta tgtttttttt ttttgagacg gagtctctct gctgtcgccc 180
aggctggagt gcagtgggtgc tatctcggct cactgcaacc tctgcactcc tagggttcaag 240
tgattctcct gcctcagcac tcctgagtag ctgggattcc aggcacacac cgccacccct 300
ggctaatttt tgtatttttg gtagagacgg ggtttcacca cgttgggtcag gctgggtctcg 360
aactcctgac actcatgatc cgcccgcatc agcctcccaa agtgctggga ttacaggcat 420
gaccaccagc a 431

<210> 149
<211> 266
<212> DNA
<213> Homo sapiens

<400> 149
tattttatatt tttattgggtt acttttaggat tctaatatgc ttacctcacc acagggttact 60
tttaaaggcc attacgccat ttaaaatacg gtataagaac ctaacaactg tataacttcca 120
ctttgtccat ctactttttg taccatgatt gtcacacatt ttacctatgt tataaatcct 180
tgcttgatca ctattatttt tgttttagtca attattgtat aaagatattt aaacaataag 240
aaaaatacat atctacctgc atagtc 266

<210> 150
<211> 300
<212> DNA
<213> Homo sapiens

<400> 150
gctcgaggaa gcattatgat acattttattg tggaagagag gggtagttta aacttgtttc 60
atccactgat gttcttattg tagctatgat atttcttaac ctgataaaac aataacttata 120
ggcaaacggt tctcacttat gtatagatga aagtatgatt tatataacct tgccatacaa 180
tagggaccca ttaattactg aagtaattaa tgttttttga gatgtctata atatggttgca 240
gttggtgaag attttagaaa gttttatttc ggccgggtgt ggctggttcac gcctgtaatc 300

<210> 151
<211> 579
<212> DNA
<213> Homo sapiens

<220>
<221> unsure

<222> (530)

<223> a, c, g or t

<400> 151

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gagaggggta gtttaaaactt gtttcaccca ctgatgttct tattgtagct atgatatttc 180
ttaatctgat aaaacaatac ttataggcaa acgtttctca cttatgtata gatgaaagta 240
tgatttatat aaccttgcca tacaataggg acccattaat tactgaagta attaagtgtt 300
tttgagatgt ctataatatg ttgcagttgg tgaagatttt agaaagtttt atttcggccg 360
ggtgtggtcg ttcatgcctg taatccagca cttggggagg ctgaggcggg tggatcaccg 420
gaggtctgga gatcaagatc agccgggcca acatgggtgg aaaccccatc tggaactaaa 480
aatgacaaaa aaattagcgg ggggtggggg caggttgctt gtaatccan gtacttcggg 540
aggctgaggc aggggaatgg ctggaaccg ggaggcagg 579
```

<210> 152

<211> 882

<212> DNA

<213> Homo sapiens

<400> 152

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ccccattatc agttggttct cagactctac cctagtgtcc agaacagtga tcaacacaga 60
gcaagtattt aataagggtt tgttggcctg aagtgaacat cctctcaggg agggatagac 120
atcaagtgag aggatgccag gcaaagggcc acccctagta acagctgctt gcatgtgcag 180
agggagtgcc cgaggaggtg ggagctctcg ggggtcacta gggggcgctg tgactatgac 240
tggatgccgt gttcttcctg caaggatgtg aggactcagt ctcaggcagg tgacaggagt 300
ggagcaatga acgccaagac acagctcctg ctctcctggc gcttacactc tggcgtgcag 360
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gagaccgccc cagccatcct ctgctctgtg cccaccaca tgactcagaa ctttgatccc 480
tacctccatg tcctgaacag gcagtttctt ccacttcaga agtccccctc gccctggaaa 540
gctcctactt taccocgtgt tccagctcac gaagctttct ctggctctcc agccaaagt 600
cattgctgcc ctctccacgc actcctgctc tacacagctc cgctgcacgc ataagtccaa 660
gctagtgtgt gtctcccttt atccagacaa gactcctcag ggcgctgacc aggtcttagt 720
tactctagcg tctcccaagc tgggccttgc ttgtgcgtac caggtatctg aaaaatggct 780
gctggaacaa aacagaggcc ggtcaagtgg aggagattaa ggttaataag tgacttcgtg 840
gagaaagtct aacatcaggt gagtggcctg caggttggtt ca 882
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<210> 153

<211> 2075

<212> DNA

<213> Homo sapiens

<400> 153

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atggagaatc tcaaagcatt cattgtatta agtgaaagaa gccagacacc aaagactata 60
tataatttcc atttctatta catcctggga aagctaaatc tacaagaaca ggaaacatat 120
cagtggggcc caggggctgg aggaacatgg gtggagctag aggccattat ccttagcaag 180
```

```

ctgacacagg aacagaaaaa caaactaagt gggagccaaa taagaagaat atatggacac 240
aaagagggga acaacagaca ctggggactg cctgaggatg gagggcagga ggagggagag 300
gatcagaaaa ataactatca gagttgtttg ggagaaccaa gaggtcgtgg ggagagctgg 360
caggaagtgg ctgggcagac cttagaatgt agtaatggga aagctatgct ggcaatttgc 420
agcattcagc cgaatctgga tctggacctc cccttctggg gtctccatgg ggatcaggaa 480
gtcaagaaca gtggttcttc ctcagtcctt ctggggctgg ggtcagcatc tgggcttgct 540
gtgttagata agcctgggca tggcagagat ggcgagatac ccaacaaaac atttgtgacc 600
tctcagcatt tccggagtga ggagttgtca cttggagggtc acggtgtaga acaacacccc 660
tccaccccat taactgttag gacatataaa acagaacaca gtgaagtgtc aatgggtgaa 720
aaggacagta ccacattttc cctactagct ttccctgtca tctctaggag ggtccttcta 780
gggatttcca cttactggaa tcacttaggg atgcccgtg atgcaggagc caccatctca 840
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gcttcgtgag ctggaacacg gggtaaagta ggagctttcc agggcggagg ggacttctga 1560
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agactgtttt gtcaccgtat ctgcatccct gcagcctgca cgccagagtg taagcgccag 1740
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acccccgaga gctccacct cctcgggcac tccctctgca catgcaagca gctgttacta 1920
ggggtggccc tttgcctggc atcctctcac ttgatgtcta tccctccctg agaggatgtt 1980
cacttcaggc caacaaaccc ttattaaata cttgctctgt gttgatcact gttctggaca 2040
ctagggtaga gtctgagaac caactgataa tggggg 2075

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<210> 154
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 154
 Met Tyr Trp Ile Asn Leu Ala Phe Ile His Gln Ile Val Ser Asn Ser
 1 5 10 15
 Ser Phe Pro Pro Ser Gln Thr Asn Glu Ala Lys Pro Asn Lys Cys Thr
 20 25 30
 Leu Leu Leu Arg Ser Lys
 35

<210> 155
<211> 27
<212> PRT
<213> Homo sapiens

<400> 155
Met Gly Leu Ala Ala Thr Ala Thr Asn Ile Leu Ile Val Ser Asn Thr
1 5 10 15

Leu Leu Gly Ile Ile Arg Gln Lys Trp Arg Gly
20 25

<210> 156
<211> 42
<212> PRT
<213> Homo sapiens

<400> 156
Met Ala Cys Arg Gly Gly Thr Ile Asp Ile Thr Met Leu Lys Gly Trp
1 5 10 15

Pro Trp Leu Val Val Ser Lys Trp Arg Gly Glu Leu Val Leu Pro Trp
20 25 30

Leu Leu Trp Val Ser Pro Tyr Thr Ser Phe
35 40

<210> 157
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (75)

<400> 157
Met Arg Pro Thr Pro Cys Pro Met Trp Lys Ala Lys Ser Pro Pro Arg
1 5 10 15

Asp Trp Val Ser Ala Val Arg Glu Leu His Glu Leu Glu Gly Lys Gln
20 25 30

Thr Glu Arg Ser Gly His Trp Ala Val Ser Arg Leu Pro Ala Pro Arg

35

40

45

Thr Glu Gln Thr Val Thr Arg Thr Ala Asn Lys Ala Arg Arg Glu Ala
 50 55 60

Leu Lys Gly Gly Gln Ser Gly Arg Ala Leu Xaa Leu Thr
 65 70 75

<210> 158

<211> 39

<212> PRT

<213> Homo sapiens

<400> 158

Thr Leu Cys Cys Pro Gly Ala Ser Ala Thr Val Arg Ser Arg Ile Thr
 1 5 10 15

Ala Ala Ser Asn Ser Trp Leu Gln Ala Leu Leu Leu Pro Arg Pro Pro
 20 25 30

Glu Ala Leu Gly Leu Gln Ala
 35

<210> 159

<211> 72

<212> PRT

<213> Homo sapiens

<400> 159

Met Ser Leu Arg Ala Val Val Glu Ala Ala Val Val Ala Val Val Gly
 1 5 10 15

Ala Ala Val Val Ala Val Val Ala Ala Ala Val Val Ser Ala Ser Gly
 20 25 30

Ala Ser Ser Ser Ala Gly Pro Val Ala Gly Tyr Val Ser Ala Gly Ala
 35 40 45

Ala Val Val Gly Phe Ser Glu Cys Thr Lys His Pro Val Cys Phe Gln
 50 55 60

Ser Phe Phe Ser Val Phe Ser Leu
 65 70

<210> 160

<211> 75
<212> PRT
<213> Homo sapiens

<400> 160
Met Lys Phe Leu Ala Val Leu Val Leu Leu Gly Val Ser Ile Phe Leu
1 5 10 15
Val Ser Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro
20 25 30
Ala Thr Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala
35 40 45
Ala Ala Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr Ala Thr Thr Ala
50 55 60
Ala Ser Thr Thr Ala Arg Lys Thr Phe Gln Phe
65 70 75

<210> 161
<211> 27
<212> PRT
<213> Homo sapiens

<400> 161
Met Glu Arg Gln Ile Asn Ser Asn Asn Leu Gln Ser Asp Thr Ile Arg
1 5 10 15
Phe Ala Phe Trp Asp Gln Ala Trp Trp Leu Thr
20 25

<210> 162
<211> 103
<212> PRT
<213> Homo sapiens

<400> 162
Leu Ser Leu Phe Phe Cys Leu Phe Phe Leu Arg Arg Ser Leu Pro Leu
1 5 10 15
Leu Pro Arg Leu Glu Cys Ser Gly Ala Ile Ser Ala Pro Cys Asn Leu
20 25 30
Arg Leu Pro Gly Ser Asn Gly Ser Pro Ala Ser Ala Ser Ala Val Ala
35 40 45

Gly Ile Thr Gly Arg Asp Tyr Asn Ala Gln Leu Phe Phe Val Phe Leu
50 55 60

Val Glu Thr Gly Phe His Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu
65 70 75 80

Thr Cys Asp Pro Pro Ala Ser Ala Ser Gln Cys Ala Gly Ile Thr Gly
85 90 95

Val Ser His His Ala Trp Pro
100

<210> 163

<211> 43

<212> PRT

<213> Homo sapiens

<400> 163

Met Ala Ser Phe Ser Asp Ser Phe Gly Asn Phe Phe Leu Ser Cys Met
1 5 10 15

Phe Leu Ser Ile Trp Ser Leu Asn Tyr Ile Cys Val Val Phe Phe Lys
20 25 30

Trp Ser Phe Ser Tyr Tyr Met Phe His Ser Lys
35 40

<210> 164

<211> 27

<212> PRT

<213> Homo sapiens

<400> 164

Met Asp Ile Lys Tyr Lys Thr Ser Phe Ser Tyr Ser Leu Met Phe Leu
1 5 10 15

Trp Leu Ser Phe Pro Leu Lys Gly Trp Phe Cys
20 25

<210> 165

<211> 85

<212> PRT

<213> Homo sapiens

<400> 165

Met Arg Pro Leu Cys Arg Thr Thr Lys Val Ile Leu Asn Leu Asn Leu
1 5 10 15

Gly Val Asn Val Gly Thr Glu Gly Phe Lys Phe Glu Val His Cys Asn
20 25 30

Ile Gln Gly Leu Pro Ala Tyr Ser Trp His Gly Trp Lys Asp Ala Thr
35 40 45

Ser Ile Phe Thr Thr Leu Ile Lys Ala Ser Met Ser Gly Glu His Lys
50 55 60

Met Gln Asn Asn Gly Cys Thr Thr Gly Asn Gly Gly Gln Cys Lys Gly
65 70 75 80

Thr Pro Ser Phe Glu
85

<210> 166

<211> 51

<212> PRT

<213> Homo sapiens

<400> 166

Met Ala Pro Ala Ser Arg Glu Gly His Ile Thr Arg Gln Asp Asp His
1 5 10 15

Ser Tyr Gln Ser Ala Trp Leu Trp Asp Pro Leu Met Met Arg Cys Asn
20 25 30

Pro Asp Leu Ile Ala Glu Ala Thr Gly Pro Lys Asp Cys Ser Phe Leu
35 40 45

Leu Gly Cys
50

<210> 167

<211> 144

<212> PRT

<213> Homo sapiens

<400> 167

Met Cys Gly Leu Ser Arg Gly Ile His Ser Leu Gly Arg Glu Thr Leu
1 5 10 15

Lys Ala Gly Leu Val Pro Thr Ala Gly Asp Glu Leu Val Glu Gly Leu
 20 25 30
 Glu Arg His Ser Ser Gly Cys Thr Gly Gly Cys Gly Ala His Arg Ile
 35 40 45
 Gln Gln Arg Arg Thr Gly Ala Ala Arg Glu Gly Phe Trp Glu Glu Leu
 50 55 60
 Glu Thr Gln Thr Gly Gln Arg Leu Ala Gly Met Trp Trp Gly Thr Gly
 65 70 75 80
 Gly Leu Ser Leu Val Glu Glu Thr Thr Thr Ala Lys Val Glu Asn Pro
 85 90 95
 Trp Arg Arg Ser Leu Thr Trp Pro Glu Gln Arg Glu Glu Glu Gly Gln
 100 105 110
 His Ser Glu Pro Gly Pro Gln Gly Thr Gly Ala Pro Trp Asn Leu Trp
 115 120 125
 Pro Lys Met Arg Asp Ala Thr Lys Gly Glu Phe Tyr Phe Asp Glu Glu
 130 135 140

<210> 168
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (21)..(36)
 <223> a, c, g or t

<400> 168
 Met Trp Ala Ala Ile Cys Ile Ile Phe Val Ile Gln Lys Arg Asp Ile
 1 5 10 15

Lys Leu Lys Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Ile His Leu Phe Arg Trp Glu Cys
 35 40

<210> 169
<211> 52
<212> PRT
<213> Homo sapiens

<400> 169
Met Asn Leu Phe Leu Cys Lys Ser Val Lys Tyr Ser Leu Asn Thr Cys
1 5 10 15
Val Pro Gln Leu Gly Leu Glu Asn Ala Lys Thr Val Met Ser Ala Glu
20 25 30
Phe Leu Cys Tyr Lys Val Ser Trp Val Arg His Pro Tyr Arg Ile Glu
35 40 45
Thr Thr Arg Lys
50

<210> 170
<211> 73
<212> PRT
<213> Homo sapiens

<400> 170
Met Cys Phe Ser Gln Ser Trp Gln Lys Gln Leu Thr Ile Leu Val Leu
1 5 10 15
Thr Val Asn Arg Val Pro Lys Arg Val Tyr Arg Thr Gly Thr His Phe
20 25 30
Gly Asp Cys Cys Pro Lys Ala Leu Ser Phe Leu Phe Thr His Phe Gly
35 40 45
Val Leu Leu Trp Phe Leu Phe Gln Lys Ile Phe Leu Ser Phe Ile Ile
50 55 60
Leu Phe Leu Ser Ser Val Met Ser Ser
65 70

<210> 171
<211> 58
<212> PRT
<213> Homo sapiens

<400> 171

Met Leu Arg Arg Tyr Met Pro Phe Ser Leu Ser Phe Ala His Lys Cys
1 5 10 15

Thr Val Glu Phe Gly His Ser Ile Lys Glu Arg Ile Tyr Gly Leu Ser
20 25 30

Pro Arg Ala Asn Lys Ile Leu Phe Ala Phe Gln Leu Pro Ile Ser Met
35 40 45

Ser Phe His Phe Leu His Met Leu Leu Pro
50 55

<210> 172

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (2)

<220>

<221> UNSURE

<222> (4) .. (5)

<400> 172

Met Xaa Ser Xaa Xaa Leu Asn Leu Gly Leu Ile Gly Ser Leu Thr Tyr
1 5 10 15

Arg Leu Ser Trp Lys Met Ser His Val Tyr Leu Gly Arg Met Cys Ile
20 25 30

Leu Leu Leu Leu Gly Thr Val Phe Cys Val Pro Trp
35 40

<210> 173

<211> 24

<212> PRT

<213> Homo sapiens

<400> 173

Met Asp Leu Glu Ile Leu Thr Phe Ile Lys Glu Asn Ser Ser Leu Val
1 5 10 15

Glu Thr Ser Leu Glu Arg Pro Lys
20

<210> 174
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (26)

<220>
<221> UNSURE
<222> (68)

<400> 174
Met Pro Val Lys Leu Leu Ser Tyr Ser Leu Pro Val Gly Gly Ser Gln
1 5 10 15
Cys Glu Val Trp Ser Pro Gly Thr Arg Xaa Thr Trp Ala His Ser Leu
20 25 30
His Thr Gly Ala Gly Lys Gly Gln Arg Glu Leu Gln Thr Gly Lys Trp
35 40 45
Met Val Trp Gly Arg Ser Pro Ala Pro Val Thr Ser Cys Glu Ser Leu
50 55 60
Ser Gln Thr Xaa Gly
65

<210> 175
<211> 47
<212> PRT
<213> Homo sapiens

<400> 175
Met Leu Pro Asn Ile Asp Ile Asp Ser Leu Gly Glu Ile Leu Ser Lys
1 5 10 15
Tyr Lys Ile Leu His Val Gln Gln Leu Asn Val Ile Asn Glu Phe His
20 25 30
Ile Tyr Leu His Asp Ile Phe Glu Ile Lys Leu Ile Ile Leu Leu
35 40 45

<210> 176
<211> 66
<212> PRT
<213> Homo sapiens

<400> 176
Met Leu Thr Lys Ser Ser His Tyr Leu Phe His Gly Thr Val Glu Ile
1 5 10 15
Arg His Pro Lys Val Ser Lys Thr Phe Lys Gln Gln Arg Leu Pro Met
20 25 30
Gln Gly Ile His Trp Gly Lys Gly Gly Ala Gln Val Leu Pro Leu Leu
35 40 45
Cys Asn Met Lys Pro Val Thr Lys Thr Ala Gly Glu Ser Leu Tyr Phe
50 55 60
Thr Leu
65

<210> 177
<211> 56
<212> PRT
<213> Homo sapiens

<400> 177
Phe Phe Phe Phe Leu Ala Arg Trp Gly Leu Ile Met Leu Pro Arg Leu
1 5 10 15
Val Ser Asn Ser Trp Ala Gln Ala Ile Leu Leu Pro Arg Pro Pro Lys
20 25 30
Met Leu Gly Phe Glu Ala Ala Ala Thr Thr Pro Ser Asp Lys Ser Leu
35 40 45
Phe Phe Lys Ile Ile His Tyr Pro
50 55

<210> 178
<211> 42
<212> PRT
<213> Homo sapiens

<400> 178
Met Ile Ser Gly Asn Glu Glu Leu Asp Phe Ser Leu Glu Phe Ala Ser

1

5

10

15

Thr Leu Leu Trp Gln Ile Ser Val Gly Ser Leu Ser Thr Leu Ser Ala
 20 25 30

Arg Gly Asn Leu Phe Tyr Gln Thr Gly Cys
 35 40

<210> 179

<211> 31

<212> PRT

<213> Homo sapiens

<400> 179

Met Tyr Gln Tyr Phe Ile Thr His Gly Val Leu Lys Ile Gln Phe Lys
 1 5 10 15

Asn Thr Val Phe His Met Ser Tyr Lys Val Leu Glu Lys Lys Phe
 20 25 30

<210> 180

<211> 38

<212> PRT

<213> Homo sapiens

<400> 180

Met Leu Val Met Thr Ile Phe Thr Asn Thr Thr Ser Tyr His Tyr Pro
 1 5 10 15

Leu Lys Leu Thr Val Leu Glu Lys His Ser Asn Trp Asp Ser Ser Ile
 20 25 30

Lys Gly Asn Leu Val Phe
 35

<210> 181

<211> 20

<212> PRT

<213> Homo sapiens

<400> 181

Met Arg Pro Tyr Glu Arg Thr Pro Ser Asn Ser Pro Pro Gln Tyr Lys
 1 5 10 15

Pro Leu Ile Leu

<210> 182
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 182
 Met Pro Lys Arg Leu Thr Gln Ile Lys Gly Pro Met Asn Asp Gly Cys
 1 5 10 15
 Tyr Cys Ser Tyr Cys Tyr Asp Phe Ala Thr Phe Leu Thr Tyr Pro Ser
 20 25 30
 Leu Asn Ile Leu Cys Ser Met Ala Ile Pro Arg Asp Gly Ile Lys Thr
 35 40 45
 Lys Glu Lys Leu Ser Phe Ser Thr Ser Asn Phe Ser Ser Ser Lys Ala
 50 55 60
 Tyr Val Gly Pro
 65

<210> 183
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 183
 Ser Phe Phe Phe Phe Phe Phe Glu Thr Arg Ser Cys Phe Val Ala Arg
 1 5 10 15
 Ala Gly Glu Arg Trp Tyr Asp His Gly Ser Leu Ala Pro Leu Pro Pro
 20 25 30
 Arg Leu Lys Gln Ser Ser His Leu Ser Leu Ala Gly Thr Trp Asp Tyr
 35 40 45
 Arg Tyr Lys Cys His Cys Ala Gln Leu Ile Phe Val Phe Phe Cys Glu
 50 55 60
 Thr Gly Phe His His Val Ala Gln Ala Gly Leu Lys Phe Leu Gly Ser
 65 70 75 80
 Ser Asn Pro Pro Ala Ser Thr Ser Gln Ser Pro Gly Ile Thr Gly Met
 85 90 95

Ser His His Thr Cys Ser Ser Phe Leu Leu Phe Ala Ile Gln His Leu
100 105 110

Leu Gln Tyr
115

<210> 184
<211> 53
<212> PRT
<213> Homo sapiens

<400> 184
Met Trp Met Cys Ile Leu Ser Gly Ser Met Ile Phe Pro Gly Pro Glu
1 5 10 15

Cys Asp Arg Ser Gly Pro Ala Ile Glu Leu Gln Ala His Arg Pro Ala
20 25 30

Ala Ala Leu Gly Cys Ile Ala Arg Leu Leu Ser Ser Cys Leu Val His
35 40 45

Met Met Pro Gly Leu
50

<210> 185
<211> 36
<212> PRT
<213> Homo sapiens

<400> 185
Met Lys Asn Lys Met Thr Leu Leu His Ile Lys Leu Leu Phe Ile Trp
1 5 10 15

Lys Asn Gln Cys Cys Phe Lys Val Ala Cys Ser Thr Ser Ser Leu Thr
20 25 30

Tyr Thr Lys Thr
35

<210> 186
<211> 23
<212> PRT
<213> Homo sapiens

<400> 186

Met Thr Thr Val Leu Ile Asn Val Gly Tyr Gln Lys Ile Pro Arg Ser
1 5 10 15

His Leu Trp Cys Thr Leu Asn
20

<210> 187

<211> 57

<212> PRT

<213> Homo sapiens

<400> 187

Met Gln Arg Asn Thr Pro Arg Thr Gly Glu Ser Glu Ser Met Ser Val
1 5 10 15

Thr Arg Ile Asn Ala Asp Glu Ala Glu Thr Arg Asn Ile Lys Phe Arg
20 25 30

Ile Ala Ser Ser Arg Arg Ile Lys Val Ile Phe Val Ile Lys Leu Lys
35 40 45

His Lys Gln Ile Glu His Cys Ile Val
50 55

<210> 188

<211> 23

<212> PRT

<213> Homo sapiens

<400> 188

Met Asn Cys Arg Arg Thr Arg Trp Arg Ser Val Val Tyr Ser Trp Asp
1 5 10 15

Leu Ser Leu Val Leu Ala Cys
20

<210> 189

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (9)..(10)

<220>
<221> UNSURE
<222> (18)

<220>
<221> UNSURE
<222> (26)

<400> 189
Met Met Thr Ala Phe Thr Ser Cys Xaa Xaa Thr Lys Tyr Lys Asn Gln
1 5 10 15
Lys Xaa Ile Asn Asn Gly Asp Phe Met Xaa His Lys Leu Ile Arg Tyr
20 25 30
Leu Met Leu Cys Leu Val Ala Val
35 40

<210> 190
<211> 70
<212> PRT
<213> Homo sapiens

<400> 190
Met Asn Asp Gln Thr Cys Gly Leu Pro Cys Ser Ala Val Ser Glu Arg
1 5 10 15
Leu Asp Pro Gln Pro Arg Thr Gly Pro Leu Ser Gly Met His Gln Arg
20 25 30
Arg Asn Trp Arg His Thr Gly Ala Gly Ala Ala Pro Gly Leu Arg Ala
35 40 45
Phe Pro Ala Leu Ser Val Tyr Pro Arg Met Glu Met Phe Thr Phe Leu
50 55 60
Phe Phe Thr Leu Asn Met
65 70

<210> 191
<211> 54
<212> PRT
<213> Homo sapiens

<400> 191

Met Leu Val Glu Cys Leu Val Asn Asn Glu Ser Tyr Ser Leu Trp Ser
1 5 10 15

Gln Gly Ser His Lys Pro Thr Gly Gln Ile Leu Cys Ile Leu Val Ser
20 25 30

Tyr Met Thr Ser Lys Phe Met Asn Leu Leu Asn Ser Phe His Thr Thr
35 40 45

Gln Asp Ala Ser Phe Trp
50

<210> 192

<211> 78

<212> PRT

<213> Homo sapiens

<400> 192

Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Ser Leu Gln Pro Pro Pro
1 5 10 15

Ser Gly Phe Lys Gln Phe Ser Tyr Leu Ser Leu Pro Ser Ser Trp Asp
20 25 30

Tyr Arg Arg Val Pro Pro Arg Pro Ala Asn Phe Ala Ile Phe Ser Arg
35 40 45

Asp Arg Val Ser Pro His Trp Leu Gly Trp Ser Arg Thr Pro Gly Leu
50 55 60

Val Phe His Leu Pro Gln Pro Pro Lys Met Leu Gly Leu Gln
65 70 75

<210> 193

<211> 125

<212> PRT

<213> Homo sapiens

<400> 193

Met Ser Asp Gly Arg Asp Leu Gly Arg Gln Pro Pro Leu Ile Leu His
1 5 10 15

His Gln Pro Gly Leu Gly Thr Trp Leu Leu Phe Leu Ser Ala Val Ser
20 25 30

Gly Gly Pro Trp Pro Thr His Lys Pro Phe Cys Gln His Leu Ala Phe

35

40

45

Gln Leu Thr Ser Thr Gln Gly Leu Cys Asp Phe Arg Arg Arg Gln Leu
 50 55 60

Gly Arg Val Arg Ala Val Pro Gly Arg Ala Gln Thr Ser Ala Gln Thr
 65 70 75 80

Ser Tyr Pro Pro Pro Thr Pro Arg Pro Arg Gly Phe Gln Ser Asn Gln
 85 90 95

His His Gln Ala Pro Gly His Trp Lys Lys Asn Leu Cys Lys Glu Ala
 100 105 110

Arg Gly His Leu Arg Lys Ser Arg Ser Pro Lys Leu Met
 115 120 125

<210> 194

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (6)..(35)

<400> 194

Met Ala Glu His Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Ile Gln Ser Ile Phe Phe Asp His Met Arg Ile Lys Ile
 35 40 45

Gly Asn Ser His Arg Asn Ile Ser Glu Ile Ser Leu Asn Ile His Lys
 50 55 60

Leu Asn Ser Thr Phe Gln Asp Gln Lys Glu Ile Lys Arg Glu Ile Arg
 65 70 75 80

Lys Tyr Ile Glu Gln Asn Gln Asn Glu Asn Val Arg Ile Cys Gly Val
 85 90 95

Thr Pro Lys Asn Val Cys Arg Lys Lys Gln His Lys Met Pro Asn Leu
 100 105 110

Lys Lys Lys Asn Leu Asn Ser Val Thr Trp Ser
115 120

<210> 195
<211> 33
<212> PRT
<213> Homo sapiens

<400> 195
Met Phe Val Leu Asn Thr Ile Leu Ile Asp Ile Tyr Cys Pro Leu His
1 5 10 15
Thr Cys Glu His Ile Phe Val Phe Glu Tyr Arg Tyr Leu Leu Asn Lys
20 25 30
Ile

<210> 196
<211> 26
<212> PRT
<213> Homo sapiens

<400> 196
Met His Phe Gln Arg Arg Lys Asn Glu Asn Leu Ser Phe Lys Met Tyr
1 5 10 15
Ser Val Met Leu Asn Val Tyr Gly Leu Lys
20 25

<210> 197
<211> 31
<212> PRT
<213> Homo sapiens

<400> 197
Met Thr Ser Gln Pro Ile Pro Arg Thr Pro Ser Asn Thr Leu Gln Phe
1 5 10 15
Ala Ile Cys Val Glu Val Arg Arg Leu Val Ile His Lys Ile Thr
20 25 30

<210> 198

<211> 22
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (17)

<400> 198
Met Lys Leu Ile Ser Gln Lys Ile Ser Ile Lys His Leu Leu Tyr Gly
1 5 10 15

Xaa Asn Thr Ala Thr His
20

<210> 199
<211> 36
<212> PRT
<213> Homo sapiens

<400> 199
Met Arg Val Leu Pro Pro Val Phe Ser Ala Pro Lys Cys Ser Asn Glu
1 5 10 15

Lys Pro Met Lys Ser Lys Tyr Ile Ile Tyr Met Leu Lys Tyr Phe Val
20 25 30

Ile Ile Lys His
35

<210> 200
<211> 49
<212> PRT
<213> Homo sapiens

<400> 200
Met Leu Leu Tyr Cys Leu His Ile Lys Leu Trp Ala Tyr Phe Cys Val
1 5 10 15

Phe Glu Leu Gly Val His Pro Thr His His Val His Phe Gly Tyr Thr
20 25 30

Lys Val Phe Thr Leu Pro Ile Ser Arg Glu His Tyr Thr Cys Asn Arg
35 40 45

Leu

<210> 201
<211> 16
<212> PRT
<213> Homo sapiens

<400> 201
Met Cys Lys Cys Gly Lys Val Pro Leu Glu Asn Leu Ile Arg Val Val
1 5 10 15

<210> 202
<211> 222
<212> PRT
<213> Homo sapiens

<400> 202
Met Glu Val Thr Pro Gly Glu Lys Ile Leu Arg Asn Thr Lys Glu Gln
1 5 10 15

Arg Asp Leu His Asn Arg Leu Arg Glu Ile Asp Glu Lys Leu Lys Met
20 25 30

Met Lys Glu Asn Val Leu Glu Ser Thr Ser Arg Leu Ser Glu Glu Gln
35 40 45

Leu Lys Cys Leu Leu Asp Glu Cys Ile Leu Lys Gln Lys Ser Ile Ile
50 55 60

Lys Leu Ser Ser Glu Arg Lys Lys Glu Asp Ile Glu Asp Val Thr Pro
65 70 75 80

Val Phe Pro Gln Leu Ser Arg Ser Ile Ile Ser Lys Leu Leu Asn Glu
85 90 95

Ser Glu Thr Lys Val Gln Lys Thr Glu Val Glu Asp Ala Asp Met Leu
100 105 110

Glu Ser Glu Glu Cys Glu Ala Ser Lys Gly Tyr Tyr Leu Thr Lys Ala
115 120 125

Leu Thr Gly His Asn Met Ser Glu Ala Leu Val Thr Glu Ala Glu Asn
130 135 140

Met Lys Cys Leu Gln Phe Ser Lys Asp Val Ile Ile Ser Asp Thr Lys
145 150 155 160

Asp Tyr Phe Met Ser Lys Thr Leu Gly Ile Gly Arg Leu Lys Arg Pro
165 170 175

Ser Phe Leu Asp Asp Pro Leu Tyr Gly Ile Ser Val Ser Leu Ser Ser
180 185 190

Glu Asp Gln His Leu Lys Leu Ser Ser Pro Glu Asn Thr Ile Ala Asp
195 200 205

Glu Gln Glu Thr Lys Asp Ala Ala Glu Glu Cys Lys Glu Pro
210 215 220

<210> 203

<211> 55

<212> PRT

<213> Homo sapiens

<400> 203

Met Val Cys Asp Phe Arg Asp Gln Ile Ile Asn Gly Ile Val Ala Ser
1 5 10 15

Ala Leu Phe Ser Leu Leu Cys His Ser Leu Trp Gly Lys Ser Ala Asp
20 25 30

Thr Arg Glu Asp Ala Gln Val Ala Leu Trp Arg Gly Pro Arg Gly Asp
35 40 45

Gly Leu Arg Leu Ser Pro Ala
50 55

<210> 204

<211> 62

<212> PRT

<213> Homo sapiens

<400> 204

Met Leu Pro Gly Ser Pro Ala Gly Glu Ala Val Ala Gly Trp Gly Val
1 5 10 15

Ala Pro Cys Gln Leu Pro Trp Ala Trp Asp Cys Arg Gln Pro Pro Pro
20 25 30

Gly Gly Gly Trp Arg Glu Ala Arg Val Arg Arg Val Arg Lys Ala Ser
35 40 45

Pro Ala Leu Gly Ser Gly Lys Gly Pro Glu Glu Pro Gly Arg
 50 55 60

<210> 205
 <211> 330
 <212> PRT
 <213> Homo sapiens

<400> 205
 Asn Cys His Arg Met Lys Pro Ala Leu Phe Ser Val Leu Cys Glu Ile
 1 5 10 15

Lys Glu Lys Thr Val Val Ser Ile Arg Gly Ile Gln Asp Glu Asp Pro
 20 25 30

Pro Asp Ala Gln Leu Leu Arg Leu Asp Asn Met Leu Leu Ala Glu Gly
 35 40 45

Val Cys Arg Pro Glu Lys Arg Gly Arg Gly Gly Ala Val Ala Arg Ala
 50 55 60

Gly Thr Ala Thr Pro Gly Gly Cys Pro Asn Asp Asn Ser Ile Glu His
 65 70 75 80

Ser Asp Tyr Arg Ala Lys Leu Ser Gln Ile Arg Gln Ile Tyr His Ser
 85 90 95

Glu Leu Glu Lys Tyr Glu Gln Ala Cys Arg Glu Phe Thr Thr His Val
 100 105 110

Thr Asn Leu Leu Gln Glu Gln Ser Arg Met Arg Pro Val Ser Pro Lys
 115 120 125

Glu Ile Glu Arg Met Val Gly Ala Ile His Gly Lys Phe Ser Ala Ile
 130 135 140

Gln Met Gln Leu Lys Gln Ser Thr Cys Glu Ala Val Met Thr Leu Arg
 145 150 155 160

Ser Arg Leu Leu Asp Ala Arg Arg Lys Arg Arg Asn Phe Ser Lys Gln
 165 170 175

Ala Thr Glu Val Leu Asn Glu Tyr Phe Tyr Ser His Leu Asn Asn Pro
 180 185 190

Tyr Pro Ser Glu Glu Ala Lys Glu Glu Leu Ala Arg Lys Gly Gly Leu
 195 200 205

Thr Ile Ser Gln Val Ser Asn Trp Phe Gly Asn Lys Arg Ile Arg Tyr
 210 215 220
 Lys Lys Asn Met Gly Lys Phe Gln Glu Glu Ala Thr Ile Tyr Thr Gly
 225 230 235 240
 Lys Thr Ala Val Asp Thr Thr Glu Val Gly Val Pro Gly Asn His Ala
 245 250 255
 Ser Cys Leu Ser Thr Pro Ser Ser Gly Ser Ser Gly Pro Phe Pro Leu
 260 265 270
 Pro Ser Ala Gly Asp Ala Phe Leu Thr Leu Arg Thr Leu Ala Ser Leu
 275 280 285
 Gln Pro Pro Pro Gly Gly Gly Cys Leu Gln Ser Gln Ala Gln Gly Ser
 290 295 300
 Trp Gln Gly Ala Thr Pro Gln Pro Ala Thr Ala Ser Pro Ala Gly Asp
 305 310 315 320
 Pro Gly Ser Ile Asn Ser Ser Thr Ser Asn
 325 330

<210> 206
 <211> 72
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (3)..(5)

<220>
 <221> UNSURE
 <222> (12)

<220>
 <221> UNSURE
 <222> (17)

<220>
 <221> UNSURE
 <222> (28)

<400> 206

Met Asn Xaa Xaa Xaa Thr Ala Met Leu Ile Ser Xaa Glu Gly Lys Asn
 1 5 10 15

Xaa Gln Gly Asn Cys Lys Lys His Asn Tyr Arg Xaa Tyr Thr Ile Met
 20 25 30

Met Ile Thr Ile His Ala Leu Gln Asn His Arg Tyr Ile Tyr Ile Leu
 35 40 45

Leu Lys Ile His Gln Leu His Trp Ser Ser Thr Tyr Tyr Val Glu Arg
 50 55 60

Lys Tyr Leu Arg Lys Phe Lys Leu
 65 70

<210> 207
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 207
 Met Tyr Ala Leu Ser Val Arg Ala Leu Ser Met Val Thr Ala Leu His
 1 5 10 15

Asp Val Ser Gly His Tyr Ser Asp Gln Lys Lys Gly Gln Tyr Val Leu
 20 25 30

Lys Gly Cys Glu Glu Val Ser Val Ser Trp Cys Thr Trp Thr Arg Glu
 35 40 45

Pro Leu Ile Pro Phe Val Ala Ser Arg His Leu Val Thr Thr
 50 55 60

<210> 208
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 208
 Met Thr Gly Phe Leu Leu Cys Ser Ser Gln Leu Asn Phe Phe Phe Lys
 1 5 10 15

Ile Leu Phe Cys Lys Ser Phe Leu Arg Ser Pro Cys Lys Pro Phe Ala
 20 25 30

Gln Ser

<210> 209
<211> 93
<212> PRT
<213> Homo sapiens

<400> 209
Met Pro His Glu Gly Gly Asp Leu Arg Leu Ser Leu Gly Arg Glu Ala
1 5 10 15
Lys Lys Arg Cys Gln Ala Ala His Gly Gln Arg Cys Ser Cys His Thr
20 25 30
Glu Phe Ser Val Leu Gly Ile Phe Val Thr Lys Ile Ala Glu Asp Ser
35 40 45
Gly Ser Tyr Val Ala Cys Thr Arg Gly Ala Pro Ala Pro Thr Val Pro
50 55 60
Ala Gly Pro Leu Lys Ser Ala Ser Leu Leu Ala Glu Pro Ser Val Ala
65 70 75 80
Pro Trp Trp Pro Arg Arg Ser Pro Asp Leu Ala Glu Ser
85 90

<210> 210
<211> 41
<212> PRT
<213> Homo sapiens

<400> 210
Phe Phe Ala Asp Thr Arg Ser His Ser Val Ala Ala Ala Gly Val Gln
1 5 10 15
Trp His Asp Tyr Ser Ser Leu Ala Pro Gln Thr Pro Gly Leu Lys Gln
20 25 30
Ser Ser Cys Leu Ser Pro Leu Ser Ser
35 40

<210> 211
<211> 99
<212> PRT
<213> Homo sapiens

<220>

<221> UNSURE

<222> (63)..(81)

<400> 211

Met Gln Pro Gly His Phe Arg Gly Gly Ser Val Cys Ala Ala Glu Glu

1

5

10

15

Ser Arg Asp Lys Trp Glu Arg Gly Ser Gln Ala Lys Gly Pro Ala Cys

20

25

30

Ala Lys Ala Gln Arg Leu Gln Ser Ala Cys Ala Ile Ser Pro Gly Gln

35

40

45

Glu Thr His Leu Pro Glu Arg Arg Pro Glu Ala Val Thr Ala Xaa Xaa

50

55

60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65

70

75

80

Xaa Arg Phe Leu Asn Pro Ala Met Ser Gly Glu Phe Gln Ile Ala Lys

85

90

95

Ser Cys Cys

<210> 212

<211> 50

<212> PRT

<213> Homo sapiens

<400> 212

Met Ala Ala Thr Cys His Thr Val Ser Pro His Glu Gly Gly Gly Val

1

5

10

15

Leu Ser Ala Val Ile Ile Tyr Thr Trp Leu Glu Asp Leu Gln Asp Arg

20

25

30

Asn Phe Leu Lys Ile Pro Leu His Ser Asp Tyr Glu Ser Lys Ile Tyr

35

40

45

Ser Leu

50

<210> 213

<211> 73
<212> PRT
<213> Homo sapiens

<400> 213
Met Arg His Pro Leu Ile Val Trp Pro Gly Leu Val Ser Gly Ser Ala
1 5 10 15
Arg Arg Val Leu Leu Gly Trp Ala Val Phe Leu Pro Ser Gly Ser Asp
20 25 30
Gly Gly Ser Glu Pro Trp Pro Pro Leu Gly Gly His Ala Val Gln Pro
35 40 45
Gly Gln Leu Pro Gly Val Cys Pro Gly His Cys Tyr Gly Leu Arg Arg
50 55 60
Val Thr Gly Arg Tyr Gln Ile Ser Pro
65 70

<210> 214
<211> 143
<212> PRT
<213> Homo sapiens

<400> 214
Arg Pro Gln Glu Arg Leu Glu Asp Val Glu Gln Lys Trp Ile Leu Pro
1 5 10 15
Cys Asp Arg Gln Leu Arg Lys Gln Ser Val Ile Thr Lys Ser Phe Ser
20 25 30
Phe Leu Phe Phe Phe Phe Phe Phe Phe Phe Leu Arg Gln Ser Leu
35 40 45
Ala Leu Ser Ala Arg Leu Glu Cys Ser Gly Met Ile Leu Ala His Cys
50 55 60
Asn Leu Cys Leu Thr Gly Ser Ser Asn Ser Pro Ala Ser Ala Ser Arg
65 70 75 80
Val Ala Gly Ile Thr Gly Met Cys His His Ala Ala Pro Ile Phe Val
85 90 95
Phe Leu Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly Leu Glu
100 105 110

Leu Leu Thr Ser Gly Asn Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly
115 120 125

Ile Thr Gly Val Ser His His Thr Arg Pro Thr Lys Ser Phe Phe
130 135 140

<210> 215

<211> 65

<212> PRT

<213> Homo sapiens

<400> 215

Met Thr Thr Lys Ile Met Leu Gln Arg Asp Asn Ile Leu Ile Lys Phe
1 5 10 15

Cys Val Leu Leu Gln Tyr Leu Val Phe Lys Ile Ser Glu Leu Ser Leu
20 25 30

Gln His Phe Thr Asn Asn Lys Trp Leu Met Leu Glu Asn Asn Arg Asn
35 40 45

Asp Leu Phe Arg Pro His Val Asn Pro Cys Val Lys Asp Lys Gln Val
50 55 60

Phe
65

<210> 216

<211> 41

<212> PRT

<213> Homo sapiens

<400> 216

Met Lys Glu Gly Ser Leu Gly Arg Leu Val Tyr Lys Leu Gln Lys Leu
1 5 10 15

His Gln Pro His Pro Ser Ser Ser Pro Cys Ser Ser Asn Asn Ile Thr
20 25 30

Gly Phe Leu Cys Val Lys Thr Phe Phe
35 40

<210> 217

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (5)

<220>

<221> UNSURE

<222> (11)..(16)

<400> 217

Met Pro Lys Arg Xaa Gln Ala Tyr Thr His Xaa Xaa Ala Xaa Xaa Xaa
1 5 10 15

Ser Phe Asn Ser His His Gln Phe Val Arg
20 25

<210> 218

<211> 38

<212> PRT

<213> Homo sapiens

<400> 218

Met Phe Val Ile His Val Tyr Val Lys Leu Lys Lys Tyr Thr His Pro
1 5 10 15

Asn Leu Leu Gly Ile Pro Ser Leu Lys Ile Asn Leu Ile Tyr Ile His
20 25 30

Arg Asn Ile Asn Thr Gly
35

<210> 219

<211> 26

<212> PRT

<213> Homo sapiens

<400> 219

Met Val Cys Ser Ile Leu Arg Ala Thr Ser Phe Ala Met Ser Asn Thr
1 5 10 15

Phe Glu Ile His Pro Tyr Phe Ser Val Tyr
20 25

<210> 220

<211> 107
<212> PRT
<213> Homo sapiens

<400> 220

Phe Phe Phe Phe Leu Gly Arg Ser Phe Val Leu Leu Pro Arg Leu Glu
1 5 10 15

Cys Asn Gly Ala Val Trp Ala His Cys Asn Leu Cys Leu Pro Gly Ser
20 25 30

Ser Asp Ser Pro Ala Ser Ala Ser Ala Val Ala Gly Ile Thr Gly Ala
35 40 45

His His Gln Val Trp Leu Ile Phe Val Phe Leu Val Glu Met Gly Leu
50 55 60

Thr His Val Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Ser Asn Pro
65 70 75 80

Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Met Ser His His
85 90 95

Ala Gln Pro Glu Cys Thr Phe Ile Ala Ala Val
100 105

<210> 221
<211> 75
<212> PRT
<213> Homo sapiens

<400> 221

Met Ser Phe Val Leu Phe Val His Leu Phe Leu Ser Val Ala His Ser
1 5 10 15

Pro Arg Phe Leu Cys Leu Thr Phe Ile His Ser Ala Gly Leu Leu His
20 25 30

His Ser Pro Asn Pro Leu Asp Ala Cys Val Gly Pro Gly Val Asn Ser
35 40 45

Leu Ser Pro Met Val Pro Arg Glu Gly Leu Gly Ser Ser Ala Trp Ser
50 55 60

Gln Ser Leu Pro Thr Arg Tyr Cys Leu Lys Lys
65 70 75

<210> 222
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (25)

<220>
<221> UNSURE
<222> (28) .. (50)

<400> 222
Met Tyr Tyr Thr Leu Asp Ile Glu Leu Asp Val Phe Pro Ile Ser Glu
1 5 10 15
His Leu Thr Tyr Thr Lys Ile Leu Xaa His Gly Xaa Xaa Xaa Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45
Xaa Xaa Asn Val Lys
50

<210> 223
<211> 56
<212> PRT
<213> Homo sapiens

<400> 223
Met Gly Gly Gly Ala Ser Gln Arg Arg Trp Gln Glu Thr Arg Ala Cys
1 5 10 15
Gln Gly Cys Thr Leu Cys Phe Tyr Leu Arg Ala Ser Leu Asp Gly Lys
20 25 30
Thr Asp Gly Asp Cys Gly Leu Asn Ala Ser Asn Pro Leu Leu Lys Met
35 40 45
Thr Thr Gly Cys Ser Thr Ser Thr
50 55

<210> 224

<211> 28
<212> PRT
<213> Homo sapiens

<400> 224
Met Lys Arg Ile Asn Phe Val Gly Lys Ser Lys Trp Leu Leu Lys Ile
1 5 10 15

Gln Ile Lys Pro Val Lys Ile Lys Tyr Arg Gln Asn
20 25

<210> 225
<211> 42
<212> PRT
<213> Homo sapiens

<400> 225
Met Asn Ile Leu Gly Val Gly Ser Glu Cys Ile Arg Arg Phe Asn Lys
1 5 10 15

Ala Val Trp Gly Ile Asn Ile Lys Ser Lys Gly Phe Ile Leu Ile Leu
20 25 30

Arg Ser Val Lys Tyr Thr Pro Thr Leu Arg
35 40

<210> 226
<211> 59
<212> PRT
<213> Homo sapiens

<400> 226
Met Thr Trp Ser Gln Met Lys Gly His Phe Asp Pro Phe Phe Asp Phe
1 5 10 15

Asn Pro Lys Leu Ser Ala Asn Met Phe Tyr Phe Leu Ala Lys Val Ile
20 25 30

Leu Asp Ala Thr Trp His Tyr Ile Lys Asn Phe Asn Val Leu Glu Ser
35 40 45

Tyr Val Leu Asp Ser Lys Glu Leu Leu Trp Gly
50 55

<210> 227

<211> 43
<212> PRT
<213> Homo sapiens

<400> 227
Met Glu Ser Lys Asn Phe Pro Pro Pro Thr Pro Thr Val Phe Gln Cys
1 5 10 15
His Asn Tyr Lys Val Ser Leu Lys Tyr Tyr Leu Ile His Ser Asn Lys
20 25 30
Ser Lys Gly Phe Val Ser Ser Trp Phe Tyr Cys
35 40

<210> 228
<211> 127
<212> PRT
<213> Homo sapiens

<400> 228
Gly Leu Gln Ala Ala Thr Thr Leu Ser Gln Lys Ile Val Phe Lys
1 5 10 15
Gly Ser Phe Arg Leu Tyr Pro Glu Lys Val Ser Tyr Ala Ile Phe Phe
20 25 30
Ser Arg Gln Ser Leu Ala Leu Leu Pro Arg Leu Glu Cys Ser Gly Ala
35 40 45
Ile Ser Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Asn Ser Pro
50 55 60
Ala Ser Ala Ser Ala Val Ala Gly Thr Val Gly Met Tyr His His Ala
65 70 75 80
Gln Leu Ile Phe Ile Phe Leu Val Glu Met Gly Phe Cys His Ile Gly
85 90 95
Gln Ala Gly Leu Lys Leu Leu Asn Ser Ser Asp Thr Pro Thr Leu Ala
100 105 110
Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Thr Gly Pro
115 120 125

<210> 229
<211> 47

<212> PRT
<213> Homo sapiens

<400> 229

Met Tyr His Leu Asp Asn His Leu Thr Leu Phe His Thr Ala Gln Leu
1 5 10 15

Tyr Ser Arg Asn His Leu Gln Leu Leu Lys Lys Val Ser Glu Ile Gln
20 25 30

Ser Tyr Phe Tyr Ser Gly Lys Glu Val Pro Ser Ile Val Thr Ser
35 40 45

<210> 230

<211> 25

<212> PRT

<213> Homo sapiens

<400> 230

Met Arg Leu Trp Cys Val Ser Glu Ser Leu Arg Glu Ala Val Phe Ser
1 5 10 15

Lys Gln Val Gly Leu Cys Trp Thr Asp
20 25

<210> 231

<211> 48

<212> PRT

<213> Homo sapiens

<400> 231

Met Ile Cys Leu Glu Val Asn Leu Asn Pro Leu Tyr Pro Phe Asn Leu
1 5 10 15

Glu Ile Ala Ser Phe Arg Ser Trp Lys Val Pro Phe Pro Leu Ser Leu
20 25 30

Ser Phe Leu Ser Gly Thr Leu Ile Val Lys Asn Trp Thr Ser Leu Ile
35 40 45

<210> 232

<211> 92

<212> PRT

<213> Homo sapiens

<400> 232

Met Thr Pro Gly Ala Gln Ser His Val Leu Ile Gln Asn His Trp Phe
1 5 10 15

Lys Cys Pro Cys Gly Arg Cys Lys Phe Pro Gly Asn Leu Leu Arg Gln
20 25 30

Asn Gly Leu Trp Gln Leu Lys Ser Ser Pro Leu Thr Asp Thr Gly Ile
35 40 45

Gly Cys Gly Gly Glu Ser Thr Pro Gly Ala Met Cys Val Lys Arg Leu
50 55 60

Met Asn Ser Ser Ser Tyr Gly Trp Ser Ala Asp Ile Met Cys Tyr Leu
65 70 75 80

Tyr Ile Asp Leu Leu Asn Phe Ser Phe Ser Ala Met
85 90

<210> 233

<211> 35

<212> PRT

<213> Homo sapiens

<400> 233

Met Asn Lys Cys Lys Tyr Ser Phe Asn Tyr Asn Tyr Ser His Ala Ser
1 5 10 15

Leu Ile Ile Leu Ile Phe Val Gly Arg Lys Gln Val Ser Asn Val Phe
20 25 30

Leu Ile Lys
35

<210> 234

<211> 33

<212> PRT

<213> Homo sapiens

<400> 234

Met Gly Ser Ile His Thr Phe Tyr Asn Pro Glu Ile Gln Ala Ile Leu
1 5 10 15

Val Thr Thr Asn Ala Leu Phe Trp Arg Ile Val Val Arg Trp Lys Lys
 20 25 30

Asn

<210> 235
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 235
 Asn Ala Gln Phe Phe Phe Cys Tyr Val Val Phe Glu Thr Gly Ser Arg
 1 5 10 15
 Ser Ala Ala Gln Ala Gly Val Gln Trp Gln Asp His Gly Leu Leu Gln
 20 25 30
 Pro Ala Pro Pro Gly Leu Lys Gln Phe Ser Leu Leu Ser Leu Gln Ser
 35 40 45
 Ser Trp Asp Tyr Arg Gln Val Pro Pro Arg Leu Thr Asn Phe Ala Ile
 50 55 60
 Phe Cys Arg Asp Gly Val Ser His Leu Ala Gln Ala Gly Leu Glu Leu
 65 70 75 80
 Leu Gly Ser Ser Lys Pro Pro Thr Ser Ala Ser Gln Ser Pro Arg Ile
 85 90 95
 Thr Gly Val Ser His Cys Pro Gln Pro
 100 105

<210> 236
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 236
 Met Phe Ile Glu Leu Leu Gln Gly Thr Trp Val Leu Lys Thr Arg Gln
 1 5 10 15
 Ile Cys Phe Tyr Asn His Ile Ser His Phe Gln Ser Leu Ser Lys Glu
 20 25 30
 Phe Val Val Gln Leu Leu Ala Ile Phe Tyr Cys

<210> 237
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 237
 Met Thr Gly Val Phe Ser Glu Ile Ser Glu Arg Pro His Asn Leu Arg
 1 5 10 15

Leu Asn Lys Glu Gly Ile Arg Ile Gly Asn Thr
 20 25

<210> 238
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 238
 Met Leu Ser Leu Asn Thr His Ala Val Gln Pro Gly Gly Pro Phe Ile
 1 5 10 15

Phe Pro Leu Leu Asn Ser Ser Pro Ser Gln Val Leu Ser Ala Pro Leu
 20 25 30

Phe Leu Cys Ile Pro Thr Thr Ser Gly Cys Asn Phe Thr Gly Trp Phe
 35 40 45

Lys His Ser Leu Ser Cys Val Thr Tyr Pro Cys Thr Cys Pro Ser Leu
 50 55 60

Leu Thr Ile Asn Ser Leu Trp Ala Asp Thr Val Ser Pro Thr Leu Gly
 65 70 75 80

Pro His Arg Ala Pro Ala Gln Thr Leu Pro Ser Val Leu Leu Leu Thr
 85 90 95

Ala Thr

<210> 239
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 239

Arg Lys Lys Ile Leu Lys Phe Leu Glu Thr Asn Glu Asn Gly Asn Thr
1 5 10 15

Thr Tyr Ala Asn Leu Gln Asp Thr Ala Lys Thr Val Leu Ala Arg Lys
20 25 30

Phe Ile Ala Lys Ser Ala Tyr Ile Lys Lys Val Glu Lys Leu Gln Ile
35 40 45

Asn Asn Leu Lys Met Asn Leu Lys Glu Leu Glu
50 55

<210> 240

<211> 53

<212> PRT

<213> Homo sapiens

<400> 240

Met Leu Arg Lys His Phe Asp Trp Arg Gln Arg Thr Lys Ser Tyr Ser
1 5 10 15

Ile Asn Ser Thr Ser Ser Val Leu Arg Ser Gln Lys Asp His Asp Leu
20 25 30

Val Tyr Ile His Ile Phe Leu Ile Lys Glu Glu Gly Tyr Tyr Ser Arg
35 40 45

Asn Leu Tyr Lys Ile
50

<210> 241

<211> 44

<212> PRT

<213> Homo sapiens

<400> 241

Met Gly Arg Lys Leu His Arg Thr Ser Leu Asn Gln Arg Met Glu Lys
1 5 10 15

Asp Thr Leu Arg Ile Gly Lys Val Glu Lys Ser Gln Arg Gly Met Leu
20 25 30

His Tyr Glu Ala Phe Gly Gln Trp Ala Thr Gln Gly
35 40

<210> 242
<211> 89
<212> PRT
<213> Homo sapiens

<400> 242
Met Leu Val Arg Ile Leu Ala Phe Thr Leu Pro Gln Val Thr Glu Gly
1 5 10 15
Arg Gly Asn Ser Gly Met Ile Thr Glu Glu Gln Leu Lys Arg Ser Lys
20 25 30
Pro Gln Arg Lys Cys Phe Leu Ala Ser Ile Ser Leu Tyr Val Lys Arg
35 40 45
Val Asn Ile Arg Ser His Asn Ile Glu His Leu Leu Pro Gly Ala Met
50 55 60
Leu Asn Ala Leu His Ala Leu Asn His Ser Phe Asn Lys His Leu Leu
65 70 75 80
Ser Thr Cys Tyr Val Gln Val Leu Phe
85

<210> 243
<211> 33
<212> PRT
<213> Homo sapiens

<400> 243
Met Cys Ser Leu Leu His Lys Ala Ser Gln Gln Ser Tyr Asn Val Gly
1 5 10 15
Ile Ile Thr Ala Ile Leu Tyr Leu Arg Thr Arg Arg Pro Arg Glu Val
20 25 30
Lys

<210> 244
<211> 38
<212> PRT
<213> Homo sapiens

<400> 244

Met Ser Phe Val Arg Thr Thr Leu Thr Leu Gly His Gly Tyr Pro Pro
1 5 10 15

Thr His Pro Ala Pro Thr Ala Phe Ile His Ser Leu Ser Gln Ala Glu
20 25 30

Lys Glu Arg Lys Val Phe
35

<210> 245

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (4)

<400> 245

Met Leu Lys Xaa Leu Ile Phe Phe Val Val Glu Ile Gln Thr Val Ile
1 5 10 15

Leu Asn Ser Tyr Gln Lys Ser Leu Asn Ser Val Leu Thr Thr Val Asn
20 25 30

Gly Arg Thr Tyr Ser Pro Leu Ser Phe Cys
35 40

<210> 246

<211> 48

<212> PRT

<213> Homo sapiens

<400> 246

Met Cys Met Glu Asn Asn Glu Tyr Phe Ile Tyr His Tyr Phe Leu Ile
1 5 10 15

Tyr Ile His Thr His Lys Phe Ile Ile Leu Ser Leu Met Arg His Gln
20 25 30

Phe Tyr Ile Gln Leu Asn Ser His Cys Asn Cys Val Pro Ser Gln Leu
35 40 45

<210> 247
<211> 35
<212> PRT
<213> Homo sapiens

<400> 247
Met Cys Leu Ala Thr Asn Leu Asn Leu Glu Tyr Tyr Leu Ile Tyr Pro
1 5 10 15
Phe Leu Pro Ser Pro Arg Ile Lys Arg Asp Ala Val Ile Tyr Phe Leu
20 25 30
Lys Ile Trp
35

<210> 248
<211> 94
<212> PRT
<213> Homo sapiens

<400> 248
Phe Arg Phe Ile Phe Phe Phe Phe Leu Arg Gln Ser His Ser Val Ala
1 5 10 15
Arg Leu Lys Cys Ser Asp Thr Val Ser Ala His Cys Asn Val Cys Leu
20 25 30
Pro Asp Ala Ser Asp Ser Arg Ala Ser Ala Thr Glu Val Ala Gly Ile
35 40 45
Thr Gly Met His His His Thr Pro Leu Ile Phe Val Phe Leu Val Glu
50 55 60
Thr Glu Phe His His Val Gly Gln Ala Ala Asn Ser Ala Ala Gln Val
65 70 75 80
Ile Leu Pro Pro Gln Leu Pro Lys Val Leu Ala Leu Gln Ala
85 90

<210> 249
<211> 17
<212> PRT
<213> Homo sapiens

<400> 249

Met Thr Glu Asp Ile Thr Tyr Thr Ile Ile Ile Thr Tyr Asn Ile Tyr
1 5 10 15

Asn

<210> 250

<211> 69

<212> PRT

<213> Homo sapiens

<400> 250

Leu Leu Gly Ser Ser Asp Pro Pro Ala Ser Ala Ser Gln Val Ala Gly
1 5 10 15

Thr Thr Gly Met Phe His His Thr Ser Leu Ile Leu Asn Ile Phe Cys
20 25 30

His Tyr Val Pro Gln Pro Gly Leu Lys Leu Leu Ala Ser Thr Ser Pro
35 40 45

Pro Ser Leu Thr Ser Gln Ser Val Arg Ile Met Gly Met Ser His Arg
50 55 60

Ala Trp Pro Thr Phe
65

<210> 251

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (4)..(16)

<220>

<221> UNSURE

<222> (18)

<400> 251

Met Tyr Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Tyr Xaa Thr Ile Trp Leu Ala Ile Tyr Glu Pro Arg Pro Glu Gly Arg

20

25

30

Ala Asp Thr Lys Arg Arg Phe Leu Lys Met Ile
 35 40

<210> 252

<211> 73

<212> PRT

<213> Homo sapiens

<400> 252

Met Glu Leu Leu Phe Ile Met Lys Ile Pro Lys Ser Ala Ala Glu Ile
 1 5 10 15

Leu Lys Arg Glu Leu Leu Ile Thr Ile Asn Tyr Thr Ala Gln His Phe
 20 25 30

Pro Phe Phe Leu Phe Phe Leu Val Pro Met Leu Gly Arg Lys Pro Glu
 35 40 45

Tyr Glu Gln Glu Leu Phe Tyr Leu Leu Val Glu Lys Gly Gln Phe Ala
 50 55 60

Val Glu Arg Met Cys Val Ser Ser Val
 65 70

<210> 253

<211> 58

<212> PRT

<213> Homo sapiens

<400> 253

Met Val Leu Ile Met Asp Asp Arg Phe Phe Phe Leu Leu Ala Lys Leu
 1 5 10 15

Glu Val Gly Asn Pro Arg Leu Leu Phe Leu Pro Phe Pro Lys Phe Gln
 20 25 30

Ser Phe Thr Ser Leu Arg Asn Pro Arg Ile Ser Val Leu Lys Lys Leu
 35 40 45

Lys Pro Leu Thr Arg Ile Arg Gly Cys Ala
 50 55

<210> 254

<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (29)..(73)

<400> 254
Met Gly Ile Ser Ile Ser Thr Val Lys Phe Ala Ile His Gln Phe Lys
1 5 10 15
Gln Ser Ser Thr Ile Phe Phe Thr Arg Ile Leu Leu Xaa Xaa Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ser Tyr Cys Leu Leu
65 70 75

<210> 255
<211> 82
<212> PRT
<213> Homo sapiens

<400> 255
Met Thr Val Phe Leu Met Glu Pro Glu Ile Asn Met Ala Phe Cys Leu
1 5 10 15
Pro Pro Asn Leu Cys Ala Ala Ile Ile Asn Val Val Ser Ile Val Leu
20 25 30
Gly Ile Gly Phe Val Ser Ala Ser Leu Glu Pro Ala Lys Glu Glu Met
35 40 45
Gln Lys Arg Leu Leu Tyr Ser Ser His Ser Ser Leu Lys Ser Ser Ser
50 55 60
Phe His Arg Asn Gly Leu Ser Gln Ala Gly Asn Asp Leu Leu His Cys
65 70 75 80
Trp Leu

<210> 256
<211> 24
<212> PRT
<213> Homo sapiens

<400> 256
Met Tyr Asn Ser Ser Gly Thr His Asp Asn Ile Thr Leu Asn Thr Gly
1 5 10 15

Gly Leu Ser Ser His Ser Leu Pro
20

<210> 257
<211> 1031
<212> PRT
<213> Homo sapiens

<400> 257
Met Val Lys Gly Ser Ile Gln Gln Glu Glu Leu Thr Ile Leu Asn Ile
1 5 10 15

Tyr Ala Pro Asn Thr Gly Ala Pro Arg Phe Ile Lys Gln Val Leu Ser
20 25 30

Asp Leu Gln Arg Asp Leu Asp Ser His Thr Leu Ile Met Gly Asp Phe
35 40 45

Asn Thr Pro Leu Ser Thr Leu Asp Arg Ser Thr Arg Gln Lys Val Asn
50 55 60

Lys Asp Thr Gln Glu Leu Asn Ser Ala Leu His Gln Ala Asp Leu Ile
65 70 75 80

Asp Ile Tyr Arg Thr Leu His Pro Lys Ser Thr Glu Tyr Thr Phe Phe
85 90 95

Ser Ala Pro His His Thr Tyr Ser Lys Ile Asp His Ile Val Gly Ser
100 105 110

Lys Ala Leu Leu Ser Lys Cys Lys Arg Thr Glu Ile Ile Thr Asn Tyr
115 120 125

Leu Ser Asp His Ser Ala Ile Lys Leu Glu Leu Arg Ile Lys Asn Leu
130 135 140

Thr	Gln	Ser	Cys	Ser	Thr	Thr	Trp	Lys	Leu	Asn	Asn	Leu	Leu	Leu	Asn	
145					150					155					160	
Asp	Tyr	Trp	Val	His	Asn	Glu	Met	Lys	Ala	Glu	Ile	Lys	Met	Phe	Phe	
				165					170					175		
Glu	Thr	Asn	Glu	Asn	Lys	Asp	Thr	Thr	Tyr	Gln	Asn	Leu	Trp	Asp	Ala	
			180					185					190			
Phe	Lys	Ala	Val	Cys	Arg	Gly	Lys	Phe	Ile	Ala	Leu	Asn	Ala	Tyr	Lys	
	195						200					205				
Arg	Lys	Gln	Glu	Arg	Ser	Lys	Ile	Asp	Thr	Leu	Thr	Ser	Gln	Leu	Lys	
	210					215					220					
Glu	Leu	Glu	Lys	Gln	Glu	Gln	Thr	His	Ser	Lys	Ala	Ser	Arg	Arg	Gln	
225					230					235					240	
Glu	Ile	Thr	Lys	Ile	Arg	Ala	Glu	Leu	Lys	Glu	Ile	Glu	Thr	Gln	Lys	
			245					250						255		
Thr	Leu	Gln	Lys	Ile	Asn	Glu	Ser	Arg	Ser	Trp	Phe	Phe	Glu	Arg	Ile	
		260						265					270			
Asn	Lys	Ile	Asp	Arg	Pro	Leu	Ala	Arg	Leu	Ile	Lys	Lys	Lys	Arg	Glu	
	275						280				285					
Lys	Asn	Gln	Ile	Asp	Thr	Ile	Lys	Asn	Asp	Lys	Gly	Asp	Ile	Thr	Thr	
	290					295					300					
Asp	Pro	Thr	Glu	Ile	Gln	Thr	Thr	Ile	Arg	Glu	Tyr	Tyr	Lys	His	Leu	
305					310					315					320	
Tyr	Ala	Asn	Lys	Leu	Glu	Asn	Leu	Glu	Glu	Met	Asp	Thr	Phe	Leu	Asp	
			325						330					335		
Thr	Tyr	Thr	Leu	Pro	Arg	Leu	Asn	Gln	Glu	Glu	Val	Glu	Ser	Leu	Asn	
		340						345					350			
Arg	Pro	Ile	Thr	Gly	Ser	Glu	Ile	Val	Ala	Ile	Ile	Asn	Ser	Leu	Pro	
	355						360					365				
Thr	Lys	Lys	Ser	Pro	Gly	Pro	Asp	Gly	Phe	Thr	Ala	Glu	Phe	Tyr	Gln	
	370					375					380					
Arg	Tyr	Lys	Glu	Glu	Leu	Val	Pro	Phe	Leu	Leu	Lys	Leu	Phe	Gln	Ser	
385					390					395					400	

Ile	Glu	Lys	Glu	Gly	Ile	Leu	Pro	Asn	Ser	Phe	Tyr	Glu	Ala	Ser	Ile	405	410	415
Ile	Leu	Ile	Pro	Lys	Leu	Gly	Arg	Asp	Thr	Thr	Lys	Lys	Glu	Asn	Phe	420	425	430
Arg	Pro	Ile	Ser	Leu	Met	Asn	Ile	Asp	Ala	Lys	Ile	Leu	Asn	Lys	Ile	435	440	445
Leu	Ala	Asn	Arg	Ile	Gln	Gln	His	Ile	Lys	Lys	Leu	Ile	His	His	Asp	450	455	460
Gln	Val	Gly	Phe	Ile	Pro	Gly	Met	Gln	Gly	Trp	Phe	Asn	Ile	Arg	Lys	465	470	475
Ser	Ile	Asn	Val	Ile	Gln	His	Ile	Asn	Arg	Ala	Arg	Asp	Lys	Asn	His	485	490	495
Met	Ile	Ile	Ser	Ile	Asp	Ala	Glu	Lys	Ala	Phe	Asp	Lys	Ile	Gln	Gln	500	505	510
Pro	Phe	Met	Leu	Lys	Thr	Leu	Asn	Lys	Leu	Gly	Ile	Asp	Gly	Thr	Tyr	515	520	525
Phe	Lys	Ile	Ile	Arg	Ala	Ile	Tyr	Asp	Lys	Pro	Thr	Ala	Asn	Ile	Ile	530	535	540
Leu	Asn	Gly	Gln	Lys	Leu	Glu	Ala	Phe	Pro	Leu	Lys	Thr	Gly	Thr	Arg	545	550	555
Gln	Gly	Cys	Pro	Leu	Ser	Pro	Leu	Leu	Phe	Asn	Ile	Val	Leu	Glu	Val	565	570	575
Leu	Ala	Arg	Ala	Ile	Arg	Gln	Glu	Lys	Glu	Ile	Lys	Gly	Ile	Gln	Leu	580	585	590
Gly	Lys	Glu	Glu	Val	Lys	Leu	Ser	Leu	Phe	Ala	Asp	Asp	Met	Ile	Leu	595	600	605
Tyr	Leu	Glu	Asn	Pro	Ile	Val	Ser	Ala	Gln	Asn	Leu	Leu	Lys	Leu	Ile	610	615	620
Ser	Asn	Phe	Ser	Lys	Val	Ser	Gly	Tyr	Lys	Ile	Asn	Val	Gln	Lys	Ser	625	630	635
Gln	Ala	Phe	Leu	Tyr	Thr	Asn	Asn	Arg	Gln	Thr	Glu	Ser	Gln	Ile	Met	645	650	655

Ser Glu Leu Pro Phe Thr Ile Ala Ser Lys Arg Val Lys Tyr Leu Gly
 660 665 670
 Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys Glu Asn Tyr Lys
 675 680 685
 Pro Leu Leu Lys Glu Ile Lys Glu Asp Thr Asn Lys Trp Lys Asn Ile
 690 695 700
 Pro Cys Ser Trp Val Gly Arg Ile Asn Ile Val Lys Met Ala Ile Leu
 705 710 715 720
 Pro Lys Val Ile Tyr Arg Phe Asn Ala Ile Pro Ile Lys Leu Pro Met
 725 730 735
 Thr Phe Phe Thr Glu Leu Glu Lys Thr Thr Leu Lys Phe Ile Trp Asn
 740 745 750
 Gln Lys Arg Ala Arg Ile Ala Lys Ser Ile Leu Ser Gln Lys Asn Lys
 755 760 765
 Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu Tyr Tyr Lys Ala Thr
 770 775 780
 Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn Arg Asp Ile Asp Gln
 785 790 795 800
 Trp Asn Arg Thr Glu Pro Ser Glu Ile Met Pro His Ile Tyr Asn Tyr
 805 810 815
 Leu Ile Phe Asp Lys Pro Glu Lys Asn Lys Gln Trp Gly Lys Asp Ser
 820 825 830
 Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu Ala Ile Cys Arg Lys
 835 840 845
 Leu Lys Leu Asp Pro Phe Leu Thr Pro Tyr Thr Lys Ile Asn Ser Arg
 850 855 860
 Trp Ile Lys Asp Leu Asn Val Arg Pro Lys Thr Ile Lys Thr Leu Glu
 865 870 875 880
 Glu Asn Leu Gly Ile Thr Ile Gln Asp Ile Gly Val Asp Lys Asp Phe
 885 890 895
 Met Ser Lys Thr Pro Lys Ala Met Ala Thr Lys Ala Lys Ile Asp Lys
 900 905 910

Trp Asp Leu Ile Lys Leu Lys Ser Phe Cys Thr Ala Lys Glu Thr Thr
915 920 925

Ile Arg Val Asn Arg Gln Pro Thr Thr Trp Glu Lys Ile Phe Ala Thr
930 935 940

Tyr Ser Ser Asp Lys Gly Leu Ile Ser Arg Ile Tyr Asn Glu Leu Lys
945 950 955 960

Gln Ile Tyr Lys Lys Lys Thr Asn Asn Pro Ile Lys Lys Trp Ala Lys
965 970 975

Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr Ala Ala Lys Lys
980 985 990

His Met Lys Lys Cys Ser Ser Ser Leu Ala Ile Arg Glu Met Gln Ile
995 1000 1005

Lys Thr Thr Met Arg Tyr His Leu Thr Pro Val Arg Met Ala Ile Ile
1010 1015 1020

Lys Lys Ser Gly Asn Asn Arg
1025 1030

<210> 258
<211> 24
<212> PRT
<213> Homo sapiens

<400> 258
Met Gly Lys Ile Gly Gly Gly Leu Asn Phe Val Lys Ile Leu Asn Gln
1 5 10 15

Val Ser Asp Ile Leu Ser Gly Ala
20

<210> 259
<211> 46
<212> PRT
<213> Homo sapiens

<400> 259
Arg Val Gly Tyr Ser Gly Ile Ile Ile Ala Tyr Cys Ser Leu Gln Leu
1 5 10 15

Leu Cys Ser Arg Asp Pro Pro Thr Ser Ala Ser Gln Val Ile Gly Thr

20 25 30

Ile Gly Met Cys His Cys Thr Trp Leu Leu Leu Ala Ile Leu

35 40 45

<210> 260

<211> 28

<212> PRT

<213> Homo sapiens

<400> 260

Met Gly Tyr His Met Gly Arg Arg Met Ser Met Leu Thr Cys Leu His

1 5 10 15

Arg Ser Phe Phe Leu Phe Leu Tyr Ser His Gln Phe

20 25

<210> 261

<211> 21

<212> PRT

<213> Homo sapiens

<400> 261

Met Asn Ile Val Lys Arg Lys Ser Pro Lys Tyr Pro Asn Leu Leu Asn

1 5 10 15

Leu Phe His Ile Glu

20

<210> 262

<211> 93

<212> PRT

<213> Homo sapiens

<400> 262

Tyr Val Phe Phe Phe Ala Asp Gly Val Ser Leu Leu Ser Pro Arg Leu

1 5 10 15

Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn Leu Cys Thr Pro Gly

20 25 30

Ser Ser Asp Ser Pro Ala Ser Ala Ser Ala Val Ala Gly Ile Pro Gly

35 40 45

Thr His Arg His Pro Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly

50

55

60

Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Leu Met Ile
 65 70 75 80

Arg Pro His Gln Pro Pro Lys Val Leu Gly Leu Gln Ala
 85 90

<210> 263

<211> 37

<212> PRT

<213> Homo sapiens

<400> 263

Met Cys Asp Asn His Gly Thr Lys Ser Arg Trp Thr Lys Trp Lys Tyr
 1 5 10 15

Thr Val Val Arg Phe Leu Tyr Arg Ile Leu Asn Gly Val Met Ala Phe
 20 25 30

Lys Ser Asn Leu Trp
 35

<210> 264

<211> 31

<212> PRT

<213> Homo sapiens

<400> 264

Met Gly Pro Tyr Cys Met Ala Arg Leu Tyr Lys Ser Tyr Phe His Leu
 1 5 10 15

Tyr Ile Ser Glu Lys Arg Leu Pro Ile Ser Ile Val Leu Ser Asp
 20 25 30

<210> 265

<211> 64

<212> PRT

<213> Homo sapiens

<400> 265

Met Thr Gln Asn Phe Asp Pro Tyr Leu His Val Leu Asn Arg Gln Phe
 1 5 10 15

Pro Pro Leu Gln Lys Ser Pro Pro Pro Trp Lys Ala Pro Thr Leu Pro

20

25

30

Arg Val Pro Ala His Glu Ala Phe Ser Gly Ser Pro Ala Lys Val His
 35 40 45

Cys Cys Pro Leu His Ala Leu Leu Tyr Thr Ala Pro Leu His Ala
 50 55 60

<210> 266

<211> 76

<212> PRT

<213> Homo sapiens

<400> 266

Gly Ser Ser Asp Ser Pro Ala Ser Thr Ser Gln Val Ala Gly Ile Ile
 1 5 10 15

Gly Val Cys His His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr
 20 25 30

Gly Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser
 35 40 45

Asp Pro Pro Thr Ser Ala Ser Gln Thr Ala Gly Ile Thr Gly Val Ser
 50 55 60

His Arg Ala Gly Pro Leu Thr Ala Cys Ala Thr Phe
 65 70 75